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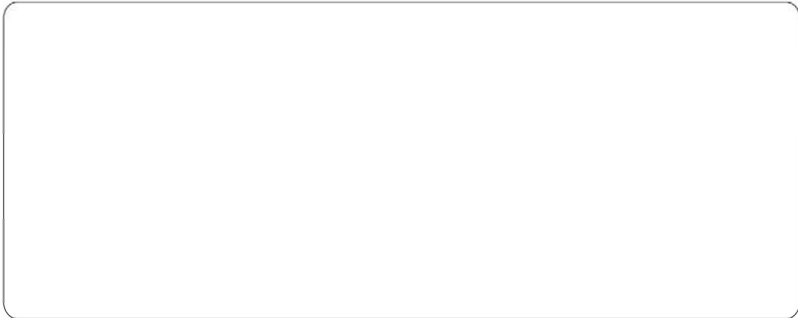
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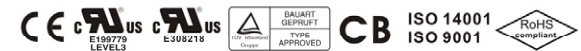
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Issued Date: Mar, 2011 (Ver.12)



- ◆ AC-DC Power Module
- ◆ AC-DC Medical Power Module
- ◆ AC-DC Switching Power Supply
- ◆ LED Power
- ◆ DC-DC Converter



Company Profile



ARCH Electronics Corp. was established in 1986 by a team of technical and manufacturing professionals of power system focusing on the design manufacture and technical support in the both fields of switching power supplies and converters for various applications. Not only Arch office but also the factory is located in Taipei for high quality management which is achieved ISO9001 since 1999.

Besides, with the rapid development in Chinese market, ARCH has implemented our technical knowledge and manufacturing process in our new China factory in SUZHOU since 2007 for enlarge the quantity of production and offer better lead time service. Furthermore, most key components in SUZHOU are purchased from Taiwan to keep ARCH high quality principles (or strategy).

Position

To design and manufacture the power in the smallest compact size in the field. Flexibility is our focus in the design and quick response to the inquiry in meeting customers' expectation. Reliability is emphasized in Arch full range products.

Philosophy

To provide a significantly competitive advantage at quality and price to satisfy our customers.

Laser Print Technology

We are proud to announce the release of our new laser print technology. Due to responsibility of environment and to avoid false products in the market, we made a decision to utilize laser printing on Arch products.

It will be applied in succession since August, 2006.

You will be interested to have a view of the products which are adapted this new technology, kindly check below pictures to have an idea for our announcement.

ARCH Commercial Terms and Conditions

1. General

The following terms and conditions, any price list or schedule, catalog, quotation, or invoice from Seller relevant to the sale of the Products and/or Services by Seller to Buyer. Buyer's acceptance of the Product and/or Services will manifest Buyer's assent to these terms and conditions. If Seller and Buyer have a written agreement in effect that covers the sale of the Product and/or Services, that agreement will govern the terms and conditions of sale exclusively.

2. Orders

All orders are subject to product availability and acceptance by Seller. All orders must have scheduled delivery dates. Any purchase order with a balance is unscheduled will be subject to Seller's standard lead-time.

3. Prices

Prices in general are dependent on volume of the particular items purchased, terms of payment, and the credit worthiness of the Buyer, and our subject to change without prior notice. Price is subject to change without notice and does not include packing and freight.

4. Payment term

Net 30 days from date of shipment unless otherwise expressly agreed upon in writing by ARCH Electronics Corp (subject to credit approval). A US\$20 wire transfer is applied to all international orders.

5. Delivery

All orders are F.O.B. shipping point, all shipping costs and insurance, as applicable, shall be added to the purchase price and shall be paid by the Buyer. Unless otherwise instructed by Buyer, Seller will exercise its own judgment in the method of shipment.

6. Reschedule (standard products)

Standard products scheduled to ship within 60 days from original ship date on P.O. are non-cancelable. Products scheduled to ship within 30-60 days may be rescheduled. All standard products must be taken within 90 days of the original scheduled date. Once an originally scheduled date is rescheduled, it may not be rescheduled again.

7. Reschedule (modified or custom products)

Modified or custom products built in accordance of customer's written specifications scheduled to ship within 90 days from date of request are non-cancelable. Product scheduled to ship within 60-90 days from date of request may be rescheduled. All modified or custom products must be taken within 90 days of the scheduled date. Once an originally scheduled date is rescheduled, it may not be rescheduled again. Any Uniquely purchased materials required to produce a modified or a custom product is the responsibility of the customers in the event of a cancellation.

8. Order cancellation

- Cancellation of PO's up to 3 days ARO won't be subject to a cancellation fee.
- Cancellation of PO's later than 3 days ARO will be subject to a cancellation fee (30% of the order value).
- Custom orders that have been completed are non-cancelable and non-returnable.

9. Warranty policy & RMA

- This does not extend to products which have been opened, altered or repaired by persons other than persons authorized by ARCH Electronics Corp. or to products which have become defective due to natural events, negligence or the failure of customer to fully follow instructions with respect to installation, application or maintenance, application or maintenance.
- Buyer should follow below procedure to return defective goods:
 - Buyer must notify Seller in writing within the warranty period of any defect or nonconformance in the goods, by completing Seller's Return Merchandise Application form (RMA).
 - Buyer must obtain authorized and an RMA number from Seller to return the defective goods
 - Buyer must pay for one-way shipping costs, additionally, acceptance of returned goods are subject to Seller's examination of such goods, or verify that the defect or nonconformance or difficulty was not in any way caused or the negligence, improper installation, misuse or unauthorized repair of the Goods. Seller may refuse acceptance of returned goods that do not follow this procedure.




New Products

> AC-DC Power Module

Output Power	30 Watt	50 Watt	100 Watt
Series	ATC30	ANC50	AQC100
			
	64.0 x 45.0 x 21.5 (mm)	75.0 x 54.0 x 22.0 (mm)	109.0 x 58.5 x 30.0 (mm)
Output Voltage Range (VAC)	Single 3.3 - 5 - 12 - 15 - 24 Dual ±5 - ±12 - ±15	Single 3.3 - 5 - 12 - 15 - 24 Dual ±5 - ±12 - ±15	Single 12 - 15 - 24 - 48
Feature	- Switching Power Module for PCB Mountable - Universal Input: 90-305 VAC, 47-63 Hz - Regulated Output and Low Ripple and Low Noise - Isolation Class II & Low Standby <0.5W - Small Size as ATC 100Watt with 30Watt Higher Power - Screw Terminal for Optional(Page74/Page77) - CE, UL (Pending) Approval	- Switching Power Module for PCB Mountable - Universal Input: 90-305 VAC, 47-440 Hz - Regulated Output - Low Ripple and Low Noise - Small Size as ANC 100Watt with 50Watt Higher Power - Screw Terminal for Optional(Page74/Page77) - CE, UL (Pending) Approval	- Switching Power Module for PCB Mountable - Universal Input: 90-264 VAC, 47-63Hz - High Efficiency up to 95%, Typical - Active PFC Function, <0.95 (230VAC), >0.99 (115VAC) - Low Leakage Current, <250uA - EN5522 Class B Meets - Class I and Class II Construction - Continuous Short Circuit Protection with Hiccup Mode and Auto Recover
Page	19	21	25


> AC-DC Switching Power Supply

Output Power	100 Watt	480 Watt	480 Watt
Series	AQF1000	AQFV480U / AQFV480E / AQFV480F	AQFC480U / AQFC480E / AQFC480F
			
	103.9 x 52.1 x 25.0 (mm)	U:177.8 x 106.5 x 45.0 (mm) F:202.8 x 106.5 x 45.0 (mm)	U:177.8 x 106.5 x 45.0 (mm) F:202.8 x 106.5 x 45.0 (mm)
Output Voltage Range (VAC)	Single 12 - 15 - 24 - 48	Single 12 - 24 - 36 - 48	Single 12 - 24 - 36 - 48
Feature	- Open Frame Switching Power Supply - Universal Input: 90-264 VAC, 47-63Hz - High Efficiency up to 93% Typical - Active PFC Function, <0.95 (230VAC), >0.99 (115VAC) - 100W Full Load at 50°C Under Free Air Convection - 120W with FAN (20CFM / 300LPM) - EN5522 Class B Meets - Class I and Class II Construction - Continuous Short Circuit Protection with Hiccup Mode and Auto Recover	- U Bracket and Enclosed Switching Power Supply - Universal Input: 90-264 VAC, 47-63Hz - Active P.F.C. Function, PF>0.95 - 300W Convection without FAN(only AQFV480U) - 480W Convection with 18CFM FAN(only AQFV480U) - Cooling by Built-in DC FAN(only AQFV480E and AQFV480F) - Built-in Remote ON/OFF Control - Built-in Remote Sense Function and Built-in DC OK Signal - Stand by 5V @ 0.6A and High Efficiency up to 92% - CE, UL Approval	- U Bracket and Enclosed Switching Power Supply - Universal Input: 90-264 VAC, 47-63Hz - Active P.F.C. Function, PF>0.95 - 300W Convection without FAN(only AQFC480U) - 480W Convection with 18CFM FAN(only AQFC480U) - Cooling by Built-in DC FAN(only AQFC480E and AQFC480F) - Built-in Remote ON/OFF Control - High Efficiency up to 92% - Stand by 5V @ 0.6A - CE, UL Approval
Page	30	38	40



> LED Power

Output Power	16 / 25 Watt	30 / 60 Watt	30 / 60 Watt	100 / 150 Watt	
Series	PLF16 / PLF25	PLF30 / PLF60	ZQF30 / ZQF60	ZQF30(R) / ZQF60(R)	ALF100 / ALF150
					
	82.5 x 45.0 x 28.0 (mm)	125.0 x 60.0 x 35.0 (mm)	101.6 x 50.8 x 28.5 (mm)	101.6 x 50.8 x 28.5 (mm)	163.7 x 71.0 x 38.0 (mm)
Output Voltage Range (VAC)	Single PLF16: 12 - 24 - 48 PLF25: 12 - 24 - 48 - 96	Single PLF30: 12 - 24 - 48 PLF60: 12 - 24 - 48 - 96	Single ZQF30: 12 - 24 - 48 ZQF60: 12 - 24 - 48 - 96	Single ZQF30(R): 12 - 24 - 48 ZQF60(R): 12 - 24 - 48 - 96	Single 12 - 24 - 36 - 48 - 64
Feature	- Fully Isolated Plastic Case - With Ip67 Level - Universal Input: 90-264 VAC - With P.F.C. Function, PF>0.93 - High Efficiency up to 98% - Turn-on Delay < 280ms - High Reliability - Double Layered PCB - Protections: Over Load / Over Voltage / Short Circuit	- Fully Isolated Plastic Case - With Ip67 Level - Universal Input: 90-264 VAC - With P.F.C. Function, PF>0.9 - With Constant Current & Constant Voltage(C.C+C.V mode) - High Reliability - Double Layered PCB - Protections: Over Load / Over Voltage / Short Circuit	- Open Frame LED Power Supply - Universal Input: 90-264 VAC - With Constant Current & Constant Voltage (C.C+C.V mode) - Dimming Function: 0-10VDC & PWM Duty Controlled (ZQF30(R) / ZQF60(R) without) - With P.F.C. Function, PF>0.9 - Free Air Convection - High Reliability - Double Layered PCB - Protections: Over Load / Over Voltage / Short Circuit	- Open Frame LED Power Supply - Universal Input: 90-264 VAC - With Constant Current & Constant Voltage (C.C+C.V mode) - Dimming Function: 0-10VDC & PWM Duty Controlled (ZQF30(R) / ZQF60(R) without) - With P.F.C. Function, PF>0.9 - Free Air Convection - High Reliability - Double Layered PCB - Protections: Over Load / Over Voltage / Short Circuit	- IP65 Design for Indoor or LED Outdoor Installations - Universal Input: 90-305 VAC - Built-in active PFC function - High Reliability - Low Cost - With Constant Current & Constant Voltage - Output Voltage and Constant Current Level can be Adjusted Through Internal Potential Meter - LED Power Application
Page	42 / 43	44 / 45	46 / 48	47 / 49	50 / 51

> LED Power

Output Power	240 Watt
Series	ALF240
	
	212.2 x 701.0 x 38.0 (mm)
Output Voltage Range (VAC)	Single ALF150: 12 - 24 - 48 ALF240: 12 - 24 - 36 - 48
Feature	- IP65 Design for Indoor or LED Outdoor Installations - Universal Input: 100-240 VAC - Built-in Active PFC Function, PF>0.95 - High Reliability - With Constant Current & Constant Voltage - Output Voltage and Constant Current Level can be Adjusted Through Internal Potential Meter - LED Power Application
Page	52

> DC-DC Converter

Output Power	5 Watt	15 Watt
Series	ZC05	ZB15
		
	31.8 x 20.3 x 10.2 (mm)	50.1 x 25.4 x 10.8 (mm)
Input Voltage Range (VDC)	9-36 / 18-75	9-36 / 18-75
Output Voltage Range (VDC)	Single 3.3 - 5 - 12 - 15 - 24 Dual ±5 - ±12 - ±15	Single 3.3 - 5 - 12 - 15 - 24 Dual ±5 - ±12 - ±15
Feature	- Power Module for PCB Mountable - High Efficiency and Reliability - <1 Wide Input Range - Single and Dual Output - Regulated Output - Low Ripple and Noise	- Power Module for PCB Mountable - Low Cost but High Reliability - <1 Wide Input Range - Single and Dual Output - Regulated Output - Low Ripple and Noise - Remote ON/OFF Control (Optional)
Page	61	62

(M) AC-DC Power Module

Series	Output Power	Picture	Input Voltage Range (V AC)	Output Voltage Range (V DC)	Isolation Voltage (V AC)	Operating Temperature	Dimension (mm)	Page
AIC	3W		90~264	Single 3.3 · 5 · 9 · 12 · 15 · 24	3750	-40°C~85°C	35.0 x 18.0 x 22.0 Safety: UL · CE · RoHS	08
AOC	4W		90~264	Single 3.3 · 5 · 8 · 9 · 12 · 14 · 15 · 24 Dual 5/3.3 · 8/5 · 12/5	3000	-40°C~70°C	36.66 x 27.16 x 17.1 Safety: UL · CE · RoHS	10
AOCH	4W		90~305	Single 3.3 · 5 · 8 · 9 · 12 · 14 · 15 · 24 Dual 5/3.3 · 8/5 · 12/5	3000	-40°C~70°C	36.66 x 27.16 x 17.1 Safety: UL · CE · RoHS	11
AHC	5W		90~264	Single 3.3 · 5 · 12 · 15 · 24	3000	-25°C~70°C or -40°C~70°C	50.8 x 25.4 x 15.16 Safety: UL · CE · RoHS	12
APC	5W		90~264	Single 3.3 · 5 · 12 · 15 · 24 Dual ±5 · ±12 · ±15	3000	-25°C~70°C or -40°C~70°C	55.0 x 45.0 x 20.5 Safety: UL · CE · TUV · RoHS	09
ALC	8W		90~305	Single 3.3 · 5 · 8 · 9 · 12 · 14 · 15 · 24 Dual 5/3.3 · 8/5 · 12/5	3000	-40°C~70°C	36.5 x 27.0 x 26.4 Safety: UL · CE · RoHS	14
AHC08	8W		90~305	Single 3.3 · 3.8 · 5 · 8 · 9 · 12 · 14 · 15 · 24 Dual 5/3.3 · 8/5 · 12/5 · 12/7.5	3000	-40°C~70°C	52.5 x 26.8 x 19.0 Safety: UL · CE · RoHS	13
AFC	10W		90~264	Single 3.3 · 5 · 12 · 15 · 24	3000	-25°C~70°C or -40°C~70°C	52.4 x 27.2 x 23.5 Safety: UL · CE · CB · RoHS	16
ATC	10W		90~264	Single 3.3 · 5 · 12 · 15 · 24 Dual ±5 · ±12 · ±15	3000	-25°C~70°C or -40°C~70°C	64.0 x 45.0 x 21.5 Safety: UL · CE · TUV · RoHS	18
ANC A	15W		90~264	Single 5 · 12 · 15 · 24 Dual ±5 · ±12 · ±15 Triple 5/±12 · 5/±15	3000	-25°C~70°C or -40°C~70°C	74.0 x 54.0 x 22.0 Safety: UL · CE · TUV · RoHS	20
AFC20	20W		90~264	Single 3.3 · 5 · 12 · 15 · 24	3000	-40°C~70°C	52.4 x 27.2 x 23.5 Safety: UL · CE · RoHS	17
AKC	20W		90~264	Single 3.3 · 5 · 7.35 · 9 · 12 · 15 · 24 Dual ±5 · ±12 · ±15 Triple 5/±12 · 5/±15	3000	-25°C~70°C	70.0 x 48.0 x 22.0 Safety: UL · CE · RoHS	15
ATC30	30W		90~305	Single 3.3 · 5 · 12 · 15 · 24 Dual ±5 · ±12 · ±15	3000	-40°C~70°C	64.0 x 45.0 x 21.5 Safety: UL (pending) · CE · RoHS	19
ASC	30W		90~264	Single 3.3 · 5 · 12 · 15 · 24 Dual ±5 · ±12 · ±15 · 5/12 Triple 5/±12 · 5/±15	3000	-25°C~70°C or -40°C~70°C	89.0 x 63.5 x 25.0 Safety: UL · CE · CB · TUV · RoHS	22
AJC	40W		90~264	Single 3.3 · 5 · 9 · 12 · 15 · 24 Dual ±5 · ±12 · ±15 · 5/12 · 5/24 Triple 5/±12 · 5/±15	3000	-40°C~70°C	89.0 x 63.5 x 25.0 Safety: UL · CE · RoHS	23
ANC50	50W		90~305	Single 3.3 · 5 · 12 · 15 · 24 Dual ±5 · ±12 · ±15	3000	-40°C~70°C	74.0 x 54.0 x 22.0 Safety: UL (pending) · CE · RoHS	21
AEC60	60W		85~265	Single 5 · 9 · 12 · 15 · 24 · 48	4000	-40°C~70°C	109.0 x 58.5 x 30.0 Safety: UL · CE · RoHS	24
AQC100	100W		90~264	Single 12 · 15 · 24 · 48	3000	-40°C~70°C	109.0 x 58.5 x 30.0 Safety: UL (pending) · CE · RoHS	25

(+) AC-DC Medical Power Module

Series	Output Power	Picture	Input Voltage Range (V AC)	Output Voltage Range (V DC)	Isolation Voltage (V AC)	Operating Temperature	Dimension (mm)	Page
MTC	15W		90~264	Single 3.3 · 5 · 7.35 · 9 · 12 · 15 · 24 Dual ±5 · ±12 · ±15 Triple 5/±12 · 5/±15	4000	-25°C~70°C or -40°C~70°C	64.0 x 45.8 x 23.5 Safety: UL50601-1, IEC601-1 UL · CE · CB · RoHS	26
MSC	40W		90~264	Single 3.3 · 5 · 9 · 12 · 15 · 24 Dual ±5 · ±12 · ±15 · 5/12 · 5/24 Triple 5/±12 · 5/±15	4000	-25°C~70°C or -40°C~70°C	89.0 x 63.5 x 27.0 Safety: UL50601-1, IEC601-1 UL · CE · CB · RoHS	27

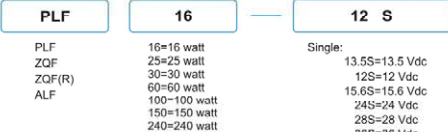
(S) AC-DC Switching Power Supply

Series	Output Power	Picture	Package Style	I/P Voltage Range (V AC)	Output Voltage Range (V DC)	Isolation Voltage (V AC)	Operating Temperature	Dimension (mm)	Page
AES600	60W		Open Frame	85~265	Single 5 · 9 · 12 · 15 · 24 · 48	3000	-40°C~70°C	103.9 x 52.1 x 25.4 Safety: UL · CE · RoHS	28
AES60U	60W		U Bracket	85~265	Single 5 · 9 · 12 · 15 · 24 · 48	3000	-40°C~70°C	105.0 x 58.0 x 38.1 Safety: UL · CE · RoHS	28
AES60D	60W		Din Rail	85~265	Single 5 · 9 · 12 · 15 · 24 · 48	3000	-40°C~70°C	105.0 x 58.0 x 38.1 Safety: UL · CE · RoHS	28
AES60E	60W		Enclosed	85~265	Single 5 · 9 · 12 · 15 · 24 · 48	3000	-40°C~70°C	105.0 x 58.0 x 38.1 Safety: UL · CE · RoHS	28
AQF1000	100W		Open Frame	90~264	Single 12 · 15 · 24 · 48	3000	-25°C~70°C	103.9 x 52.1 x 25.0 Safety: UL · CE · RoHS	30
AQF1200	180W		Open Frame	90~264	Single 5 · 12 · 15 · 24 · 48	4000	-25°C~70°C	127.0 x 76.2 x 29.5 Safety: UL · CE · RoHS	32
AQF120U	180W		U Bracket	90~264	Single 5 · 12 · 15 · 24 · 48	4000	-25°C~70°C	127.0 x 82.2 x 38.1 Safety: UL · CE · RoHS	32
AQF120D	180W		Din Rail	90~264	Single 5 · 12 · 15 · 24 · 48	4000	-25°C~70°C	127.0 x 82.2 x 38.1 Safety: UL · CE · RoHS	32
AQF120E	180W		Enclosed	90~264	Single 5 · 12 · 15 · 24 · 48	4000	-25°C~70°C	127.0 x 82.2 x 38.1 Safety: UL · CE · RoHS	32
AQF240U	240W		U Bracket	90~264	Single 12 · 15 · 24 · 28 · 32 · 48	4000	-10°C~70°C	150.0 x 106.0 x 35.0 Safety: UL · CE · RoHS	34
AQF240D	240W		Din Rail	90~264	Single 12 · 15 · 24 · 28 · 32 · 48	4000	-10°C~70°C	150.0 x 106.0 x 35.0 Safety: UL · CE · RoHS	34
AQF240E	240W		Enclosed	90~264	Single 12 · 15 · 24 · 28 · 32 · 48	4000	-10°C~70°C	150.0 x 106.0 x 35.0 Safety: UL · CE · RoHS	34
AQF360U	360W		U Bracket	90~264	Single 12 · 24 · 36 · 48 · 54	3000	-10°C~70°C	172.7 x 81.3 x 38.0 Safety: UL · CE · RoHS	36
AQF360E	360W		Enclosed	90~264	Single 12 · 24 · 36 · 48 · 54	3000	-10°C~70°C	172.7 x 81.3 x 53.3 Safety: UL · CE · RoHS	36
AQF360F	360W		Enclosed	90~264	Single 12 · 24 · 36 · 48 · 54	3000	-10°C~70°C	197.7 x 81.3 x 41.0 Safety: UL · CE · RoHS	36
AQFV480U	480W		U Bracket	90~264	Single 12 · 24 · 36 · 48	3000	-20°C~70°C	177.8 x 106.5 x 45.0 Safety: UL · CE · RoHS	38
AQFV480E	480W		Enclosed	90~264	Single 12 · 24 · 36 · 48	3000	-20°C~70°C	177.8 x 106.5 x 60.3 Safety: UL · CE · RoHS	38
AQFV480F	480W		Enclosed	90~264	Single 12 · 24 · 36 · 48	3000	-20°C~70°C	202.8 x 106.5 x 45.0 Safety: UL · CE · RoHS	38
AQFC480U	480W		U Bracket	90~264	Single 12 · 24 · 36 · 48	3000	-20°C~70°C	177.8 x 106.5 x 45.0 Safety: UL · CE · RoHS	40
AQFC480E	480W		Enclosed	90~264	Single 12 · 24 · 36 · 48	3000	-20°C~70°C	177.8 x 106.5 x 60.3 Safety: UL · CE · RoHS	40
AQFC480F	480W		Enclosed	90~264	Single 12 · 24 · 36 · 48	3000	-20°C~70°C	202.8 x 106.5 x 45.0 Safety: UL · CE · RoHS	40

LED Power NEW

Series	Output Power	Picture	I/P Voltage (V _{DC})	Output Voltage Range (V _{DC})	Isolation Voltage (V _{AC})	Operating Temperature	Dimension (mm)	Page
PLF16	16W	 Fully Isolated Plastic Case with IP67 Level	90~277	Single 15.6 · 24 · 48	4000	-30°C~70°C	82.5 x 45.0 x 28.0 Safety: IP67 (pending) · CE · RoHS	42
PLF16	25W	 Fully Isolated Plastic Case with IP67 Level	90~277	Single 18 · 24 · 36 · 58	4000	-30°C~70°C	82.5 x 45.0 x 28.0 Safety: IP67 (pending) · CE · RoHS	43
PLF30	30W	 Fully Isolated Plastic Case with IP67 Level	90~264	Single 13.5 · 24 · 48	4000	-30°C~70°C	125.0 x 60.0 x 35.0 Safety: IP67 (pending) · CE · RoHS	44
PLF60	60W	 Fully Isolated Plastic Case with IP67 Level	90~264	Single 13.5 · 24 · 28 · 48 · 54	4000	-30°C~70°C	125.0 x 60.0 x 35.0 Safety: IP67 (pending) · CE · RoHS	45
ZQF30	30W	 Open Frame LED Power	90~264	Single 13.5 · 24 · 48	3750	-30°C~70°C	101.6 x 50.8 x 28.5 Safety: CE · RoHS	46
ZQF30(R)	30W	 Open Frame LED Power	90~264	Single 13.5 · 24 · 48	3750	-30°C~70°C	101.6 x 50.8 x 28.5 Safety: CE · RoHS	47
ZQF60	60W	 Open Frame LED Power	90~264	Single 13.5 · 24 · 28 · 48 · 54	3750	-30°C~70°C	101.6 x 50.8 x 20.5 Safety: CE · RoHS	48
ZQF60(R)	60W	 Open Frame LED Power	90~264	Single 13.5 · 24 · 48 · 48 · 54	3750	-30°C~70°C	101.6 x 50.8 x 28.5 Safety: CE · RoHS	49
ALF100	100W	 IP65 Design for Indoor or LED Outdoor Installations	90~305	Single 12 · 24 · 36 · 48 · 54	3750	-30°C~70°C	163.7 x 71.0 x 38.0 Safety: IP65 (pending) · CE · RoHS	50
ALF150	150W	 IP65 Design for Indoor or LED Outdoor Installations	90~305	Single 12 · 24 · 36 · 48 · 54	3750	-30°C~70°C	163.7 x 71.0 x 38.0 Safety: IP65 (pending) · CE · RoHS	51
ALF240	240W	 IP65 Design for Indoor or LED Outdoor Installations	90~264	Single 12 · 24 · 36 · 48	3000	-25°C~70°C	212.2 x 70.0 x 38.0 Safety: IP65 · UL · CE · RoHS	52

Series Name Output Power Output Voltage & Output Type



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DC-DC Converter

Series	Output Power	Picture	Input Voltage Range (V _{DC})	Output Voltage Range (V _{DC})	Isolation Voltage (V _{DC})	Operating Temperature	Dimension (mm)	Page
SR78/1000	1A		9V~4.36~36 12V~4.75~36/6.5~36 8.0~36 24V~11~36/15~36/18~34	Single 1.5 · 1.8 · 2.5 · 3.3 · 5 · 6.5 · 9 · 12 · 15	—	-40°C~85°C	11.5 x 10.2 x 7.55 Safety: RoHS	54
SB1R5	1.5W		4.5~5.5 · 10.8~13.2 21.6~28.4 · 43.2~52.8	Single 5 · 12 · 15 · 24 Dual 1.6 · 1.2 · 1.5	500	-25°C~70°C	31.8 x 20.3 x 10.2 Safety: RoHS	55
SB03	3W		4:1 Range 9~36 18~75	Single 3.3 · 5 · 12 · 15 · 24 Dual 1.5 · 1.2 · 1.5	1600	-25°C~70°C	31.8 x 20.3 x 10.2 Safety: RoHS	56
SB05	5W		4:1 Range 9~36 18~75	Single 3.3 · 5 · 12 · 15 · 24 Dual 1.5 · 1.2 · 1.5	1600	-25°C~70°C	31.8 x 20.3 x 10.2 Safety: RoHS	56
SH05	5W		4:1 Range 9~36 18~75	Single 3.3 · 5 · 12 · 15 · 24 Dual 1.5 · 1.2 · 1.5	1600	-25°C~60°C	31.8 x 20.3 x 11.2 Safety: RoHS	58
ZA05	5W		4:1 Range 9~36 18~75	Single 3.3 · 5 · 12 · 15 · 24 Dual 1.5 · 1.2 · 1.5	1600	-25°C~70°C	31.8 x 20.3 x 10.2 Safety: RoHS	60
ZC05	5W	 NEW	4:1 Range 9~36 18~75	Single 3.3 · 5 · 12 · 15 · 24 Dual 1.5 · 1.2 · 1.5	1600	-25°C~70°C	31.8 x 20.3 x 10.2 Safety: RoHS	61
SB08	8W		2:1 Range 9~18 9~18 18~36 36~75	Single 3.3 · 5 · 12 · 15 · 24 Dual 1.5 · 1.2 · 1.5	1600	-25°C~70°C	31.8 x 20.3 x 10.2 Safety: RoHS	56
SH08	8W		4:1 Range 9~36 18~75	Single 3.3 · 5 · 12 · 15 · 24 Dual 1.5 · 1.2 · 1.5	1600	-25°C~60°C	31.8 x 20.3 x 11.2 Safety: RoHS	58
SH10	10W		2:1 Range 9~18 18~36 36~75	Single 3.3 · 5 · 12 · 15 · 24 Dual 1.5 · 1.2 · 1.5	1600	-25°C~60°C	31.8 x 20.3 x 11.2 Safety: RoHS	58
SW15	15W		2:1 Range 9~18 18~36 36~75	Single 3.3 · 5 · 12 · 15	1600	-40°C~85°C	25.4 x 25.4 x 11.0 Safety: RoHS	64
SW20	20W		2:1 Range 9~18 18~36 36~75	Single 3.3 · 5 · 12 · 15	1600	-40°C~85°C	25.4 x 25.4 x 11.0 Safety: RoHS	65
ST10	10W		2:1 Range 9~18 9~18 18~36 36~75	Single 3.3 · 5 · 12 · 15 · 24 Dual 1.5 · 1.2 · 1.5	1600	-25°C~70°C	50.1 x 25.4 x 10.8 Safety: UL · CE · RoHS	66
ST15	15W		2:1 Range 9~18 9~18 18~36 36~75	Single 3.3 · 5 · 12 · 15 · 24 Dual 1.5 · 1.2 · 1.5	1600	-25°C~70°C	50.1 x 25.4 x 10.8 Safety: UL · CE · RoHS	66
ZB15	15W		2:1 Range 9~18 9~18 18~36 36~75	Single 3.3 · 5 · 12 · 15 · 24 Dual 1.5 · 1.2 · 1.5	1600	-25°C~70°C	50.1 x 25.4 x 10.8 Safety: RoHS	62
ST20	20W		2:1 Range 18~36 36~75	Single 2.5 · 3.3 · 5	1600	-25°C~70°C	50.1 x 25.4 x 10.8 Safety: UL · CE · RoHS	66
ST30	30W		2:1 Range 18~36 36~75	Single 2.5 · 3.3 · 5 · 12 · 15 · 24	1600	-40°C~85°C	50.8 x 25.4 x 11.0 Safety: RoHS	69
SF30	30W		4:1 Range 10~40 18~75	Single 2.5 · 3.3 · 5 · 12 · 15 · 24 Dual 1.5 · 1.2 · 1.5	1600	-25°C~70°C	50.8 x 40.6 x 11.9 Safety: RoHS	69
SK30	30W		2:1 Range 36~75	Single 1.8 · 2.5 · 3.3 · 5 · 12 · 15 · 24	1600	-25°C~70°C	50.8 x 40.6 x 11.9 Safety: RoHS	70
SK40	40W		2:1 Range 36~75	Single 1.8 · 2.5 · 3.3 · 5 · 12 · 15 · 24	1600	-25°C~70°C	50.8 x 40.6 x 11.9 Safety: RoHS	71
SU20	20W		2:1 Range 9~18 9~18 18~36 36~75	Single 3.3 · 5 · 12 · 15 · 24 Dual 1.5 · 1.2 · 1.5 Tripo 5/1.2 · 5/1.5	1600	-25°C~70°C	50.8 x 50.8 x 11.4 Safety: RoHS	72
SU40	40W		2:1 Range 9~18 9~18 18~36 36~75	Single 1.8 · 2.5 · 3.3 · 5 · 12 · 15 · 24 Dual 1.5 · 1.2 · 1.5 Triple 5/1.2 · 5/1.5	1600	-25°C~70°C	50.8 x 50.8 x 11.4 Safety: RoHS	72

AC-DC Power Module

Series Name	Output Voltage & Output Type	Option
AHC	3.3 S	E1 A2
AIC ADC AOCH AHC APC ALC AHC08 AFC ATC ANC_A AFC20 AKC ATC30 ASC AJC ANC50 AEC60 AQC100	Single: 3.3S=3.3 Vdc 5S=5 Vdc 7.35S=7.35 Vdc 9S=9 Vdc 12S=12 Vdc 14S=14 Vdc 15S=15 Vdc 24S=24 Vdc Triple: 5S12D=5 / ±12 Vdc 5S15D=5 / ±15 Vdc	Dual: 5D= ±5 Vdc 12D= ±12 Vdc 15D= ±15 Vdc 5S3.3S= 5 / 3.3 Vdc 5S12S= 5 / 12 Vdc 5S24S= 5 / 24 Vdc 8S5S= 8 / 5 Vdc 12S5S= 12 / 5 Vdc 12S7.5S= 12 / 7.5 Vdc
		E1 E1=Operating Starts at -40°C AFC, AHC, ANC_A, APC, ATC
		A2 A2 / A5= Screw Terminal A2-DN / A5-DN=Din Rail Accessory AHC, AHC08, AFC, AFC20, APC, ATC, ATC30, ANC_A, ANC50, AKC, ASC, AJC

AC-DC Medical Power Module

Series Name	Output Voltage & Output Type	Option
MTC	3.3 S	E1
MTC MSC	Single: 3.3S=3.3 Vdc 5S=5 Vdc 7.35S=7.35 Vdc 9S=9 Vdc 12S=12 Vdc 15S=15 Vdc 24S=24 Vdc Triple: 5S12D=5 / ±12 Vdc 5S15D=5 / ±15 Vdc	Dual: 5D= ±5 Vdc 12D= ±12 Vdc 15D= ±15 Vdc 5S12S=5 / 12 Vdc 5S24S=5 / 24 Vdc
		E1 E1=Operating Starts at -40°C

AC-DC Switching Power Supply

Series Name	Output Power	Package Type	Output Voltage & Output Type
AES	60	O	5 S
AES AQF AQFV (CC Mode) AQFC (CV Mode)	30=30 watt 100=100 watt 120=180 watt 240=240 watt 360=360 watt 480=480 watt	O=Open Frame D=Din Rail Accessory E=Enclosed U=U Bracket	Single: 3.3S=3.3 Vdc 5S=5 Vdc 9S=9 Vdc 12S=12 Vdc 15S=15 Vdc 24S=24 Vdc 28S=28 Vdc 48S=48 Vdc

DC-DC Converter

Series Name	Output Power	Input Voltage	Output Voltage & Output Type	Option
SB	1R5	5	12 S	A2
SB1R5 SB SII SW ST SF SK SU ZA ZB ZC SR78/1000	1R5=1.5 watt 03=3 watt 05=5 watt 08=8 watt 10=10 watt 15=15 watt 20=20 watt 25=25 watt 30=30 watt 40=40 watt	2:1 Range 3=3.0-3.6 Vdc 5=4.5-5.5 Vdc 12=4.5-13.5 Vdc or 7.0-13.5 Vdc or 9-18 Vdc or 9-36 Vdc or 10.8-13.2 Vdc 24=18-36 Vdc or 18-75 Vdc or 21.6-26.4 Vdc 48=36-75 Vdc or 43.2-52.8 Vdc 4:1 Range 24F=9-36 Vdc or 10-40 Vdc 48F=18-75 Vdc	Single: 1.5S=1.5 Vdc 1.8S=1.8 Vdc 2.1S=2.1 Vdc 2.5S=2.5 Vdc 3.3S=3.3 Vdc 5S=5 Vdc 12S=12 Vdc 15S=15 Vdc 24S=24 Vdc Dual: 5D= ±5 Vdc 12D= ±12 Vdc 15D= ±15 Vdc Triple: 5S12D=5 / ±12 Vdc 5S15D=5 / ±15 Vdc	A2 / A5= Screw Terminal SW15, SW20, ST10, ST15, ST20, ST30 SF30, SK30, SK40, SU20, SU40

Quotation & Order

Arch representatives respond the inquiries in 24 hours for the standard products. For O.D.M. Projects with completed specification, Arch should quote with in 3 days.

Purchase orders must be placed to Arch by mail, e-mail or fax. To avoid any misunderstanding or confusion, Arch would not accept orders by oral discussion.

For confirmation, Arch will place Performa Invoice with schedule shipped dates by fax. If you fail to receive PI, please contact Arch within 3 working days.

Delivery & Return

Most of our standard products are available in the stock and small quantity can be shipped no later than 5 working days. For large quantity or new products, 4-6 weeks lead-time is required.

All returned goods must have RMA (return material authorization) number applied from Arch. Products returned without prior authorised will be returned to buyer. All goods must be shipped prepaid unless further information by Arch.

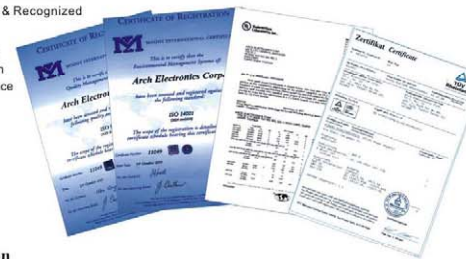
Warranty

All products of Arch are guaranteed in two years from date of shipment. Customers may consider return for credit or exchange, please make contact with Arch for further information.

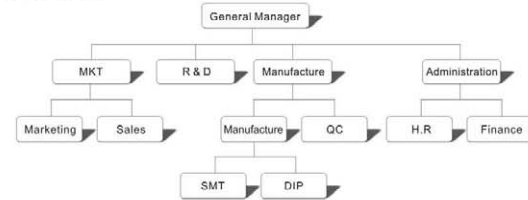
Goods should be shipped as "freight prepaid" to Arch and Arch will repair and return the units (freight prepaid) within 7 working days. If warranty period is expired, a repair charge will be quoted by Arch.

Certifications

ISO 9001 Certificate No.11049
ISO 14001 Certificate No.11049
UL/ cUL Listed & Recognized
CE Approved
TUV Certificate
CB Authorisation
RoHS Compliance



Organization



Attention

Information furnished by Arch is believed to be accurate and reliable. If there is any variance between the data presented in the catalogue and the specification, the specification sheets should take priority.

Please refer to Arch website www.archcorp.com.tw for the latest specification information. For continuing product improvement, Arch reserves the right to revise any information in the catalogue without any further notification.

ODM Welcome

ARCH is professional Taiwan base power supply manufacturer, two factories in Taipei county and China, received ISO-9001 and ISO-14001 certificate. We have own SMT, DIP lines in Taipei county and China, with highly trained production line employees and complete quality process.

Our experienced R&D team has the strong capacity to meet your requirement. Please contact sales@archcorp.com.tw for details included NRE quotation.

Product Range



SR78/1000 SERIES

1 A



- Feature
- SIP-Package Fits Existing TO-220 Footprint
- Pin Compatible with LMxx Linear Regulators
- Efficiency up to 96%, Non Isolated, No Need for Heatsinks
- Wide Input Operating (4.6V~36V)
- Non Standard Outputs Available as Specials Between 1.5V~15V
- Short Circuit Protection
- Over-Current Protection & Over-Temperature protection
- UL94V-0 Package Material
- 2-Years Product Warranty

Input Specifications	
Characteristics	Conditions
Nominal Voltag	9V~4.6~36VDC
	12V~4.75~36VDC
	6.5~36VDC
	8.0~36VDC
24V~11~36VDC	15~36VDC
	18~34VDC
	18~34VDC
Filter	C Filter

Output Specifications	
Characteristics	Conditions
Current	1000 mA (max.)
Voltage Accuracy (at Full Load)	±3%
Minimum Load (at Full Load)	0%
Line Regulation (LL to 25V)	±1% (at Full Load) (typ.)
Load Regulation (10% to 100% at Full Load)	±0.8% (Nominal Input) (typ.)
Ripple & Noise (Nominal Input) (20MHz bandwidth)	1.5S~3.3S:50mV (max.)
	5S~6.5S:75mV (max.)
	9S:100mV (max.)
12S~15S:120mV (max.)	
Thermal Shut Down (Internal IC Junction)	+160°C (typ.)
Short Circuit Protection	Continuous, Auto-recovery

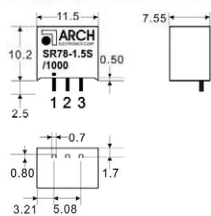
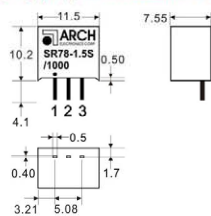
General Specifications	
Characteristics	Conditions
Efficiency (Min. Vin) (see table list)	76% to 96% (typ.)
Efficiency (Max. Vin) (see table list)	66% to 93% (typ.)
Frequency	500K Hz (typ.)
Operating Temperature	-40°C to +85°C (with Derating)
Storage Temperature	-55°C to +125°C
Humidity	95% RH (max.)

Physical Specifications	
Characteristics	Conditions
Dimension (Tolerance ±0.25 mm)	11.5 x 10.2 x 7.55 mm
Weight	1.9 g

Outline Dimensions & Pin Connections

A Type (PIN material: Metal)

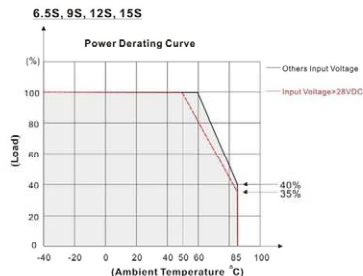
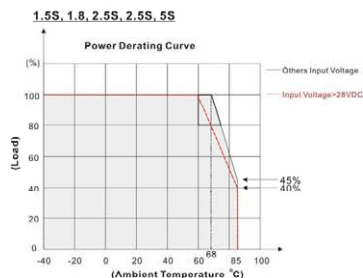
B Type (PIN material: PCB)



SR78/1000 Single Output

Model No.	Input Voltage (VDC)	OP Voltage (VDC)	OP Wattage (W) max.	Eff. (%) Min. Vin	Eff. (%) Max. Vin
SB78-1.5S/1000	4.6~36	1.5	1.5	76	66
SB78-1.8S/1000	4.6~36	1.8	1.8	80	71
SB78-2.5S/1000	4.6~36	2.5	2.5	85	76
SB78-3.3S/1000	4.75~36	3.3	3.3	88	80
SB78-5S/1000	6.5~36	5	5	93	85
SB78-6.5S/1000	8.0~36	6.5	6.5	93	87
SB78-9S/1000	11~36	9	9	95	90
SB78-12S/1000	15~36	12	12	95	92
SB78-15S/1000	18~34	15	15	96	93

Derating



SB1R5 SERIES

1.5 Watt



- Feature
- Power Module for PCB Mountable
- Fully Encapsulated Plastic Case
- Regulated Output
- Low Ripple and Noise
- Ultra Compact Size: 1.25 x 0.8 x 0.4 inches
- 2-Years Product Warranty

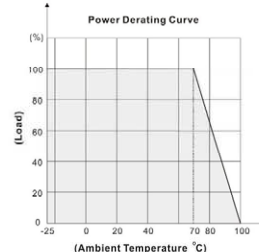
Input Specifications	
Characteristics	Conditions
Voltage Range	5V~4.5~5.5VDC
	12V~10.8~13.2VDC
	24V~21.6~26.4VDC
	48V~43.2~52.8VDC
Filter	π type

Output Specifications	
Characteristics	Conditions
Output Power	1.5 Watt (max.)
Voltage Accuracy (Full Load and Nominal Vin)	±3%
Line Regulation (LL to HL at Full Load)	±0.3% (typ.)
Load Regulation (10% to 100% at Full Load)	±0.5% (typ.)
Ripple (20MHz bandwidth)	<0.2% Vout +10mV (max.)
Noise (20MHz bandwidth)	<0.5% Vout +30mV (max.)
Temperature Coefficient	±0.02% / °C (max.)
Short Circuit Protection	Current limit, Auto-recovery

General Specifications	
Characteristics	Conditions
Efficiency (see table list)	51% to 65% (typ.)
Frequency	20K Hz (typ.)
Isolation Voltage (Input to Output)	500 VDC (min.)
Isolation Resistance	10 ⁹ Ω (min.)
Operating Temperature	-25°C to +70°C (at Full Load)
Storage Temperature	-55°C to +105°C
Humidity	95% RH (max.)
Cooling	Free-air Convection

Physical Specifications	
Characteristics	Conditions
Dimension (Tolerance ±0.5 mm)	31.8 x 20.3 x 10.2 mm
Weight	13 g
Case Material	Plastic

Derating



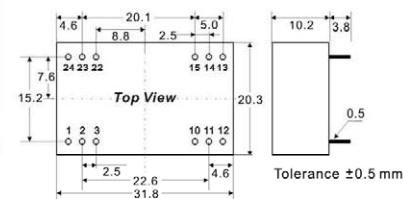
SB1R5 Single Output

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max.	Eff. (%)
SB1R5-5-5S	4.5~5.5	5	300	60
SB1R5-5-12S	4.5~5.5	12	125	54
SB1R5-5-15S	4.5~5.5	15	100	56
SB1R5-5-24S	4.5~5.5	24	63	58
SB1R5-12-5S	10.8~13.2	5	300	65
SB1R5-12-12S	10.8~13.2	12	125	60
SB1R5-12-15S	10.8~13.2	15	100	62
SB1R5-12-24S	10.8~13.2	24	63	64
SB1R5-24-5S	21.6~26.4	5	300	57
SB1R5-24-12S	21.6~26.4	12	125	55
SB1R5-24-15S	21.6~26.4	15	100	55
SB1R5-24-24S	21.6~26.4	24	63	58
SB1R5-48-5S	43.2~52.8	5	300	53
SB1R5-48-12S	43.2~52.8	12	125	52
SB1R5-48-15S	43.2~52.8	15	100	51
SB1R5-48-24S	43.2~52.8	24	63	54

SB1R5 Dual Output

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max.	Eff. (%)
SB1R5-5-5D	4.5~5.5	±5	±150	57
SB1R5-5-12D	4.5~5.5	±12	±60	59
SB1R5-5-15D	4.5~5.5	±15	±50	61
SB1R5-12-5D	10.8~13.2	±5	±150	60
SB1R5-12-12D	10.8~13.2	±12	±60	61
SB1R5-12-15D	10.8~13.2	±15	±50	65
SB1R5-24-5D	21.6~26.4	±5	±150	54
SB1R5-24-12D	21.6~26.4	±12	±60	54
SB1R5-24-15D	21.6~26.4	±15	±50	56
SB1R5-48-5D	43.2~52.8	±5	±150	52
SB1R5-48-12D	43.2~52.8	±12	±60	54
SB1R5-48-15D	43.2~52.8	±15	±50	54

Outline Dimensions & Pin Connections



SB03 SERIES

3 Watt

SB05 SERIES

5 Watt



---- Feature ----

- Power Module for PCB Mountable
- 4:1 Wide Input Range
- Regulated Output
- Low Ripple and Noise
- Ultra Compact Size: 1.25 x 0.8 x 0.4 Inches
- 2-Years Product Warranty

SB08 SERIES

8 Watt



---- Feature ----

- Power Module for PCB Mountable
- 2:1 & 4:1 Wide Input Range
- Regulated Output
- Low Ripple and Noise
- Ultra Compact Size: 1.25 x 0.8 x 0.4 Inches
- 2-Years Product Warranty

Input Specifications			
Characteristics	Conditions		
	SB03	SB05	SB08
Voltage Range	24V~9~36VDC 48V~18~75VDC	24V~9~36VDC 48V~18~75VDC	2:1 Range 12V~9~18, 24V~18~36, 48V~36~75VDC 4:1 Range 24V~9~36, 48V~18~75VDC
Filter	π type	π type	L-C type

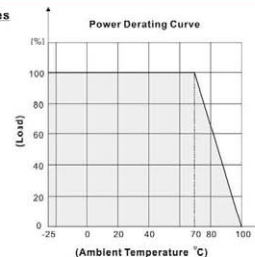
Output Specifications			
Characteristics	Conditions		
	SB03	SB05	SB08
Output Power	4 Watt (max.)	6 Watt (max.)	8 Watt (max.)
Voltage Accuracy (Full Load and Nominal Vin)	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$
Line Regulation (LL to HL at Full Load)	$\pm 0.5\%$ (typ.)	$\pm 0.5\%$ (typ.)	$\pm 0.5\%$ (typ.)
Load Regulation (10% to 100% at Full Load)	3.3S: $\pm 3\%$ (typ.) others: $\pm 1\%$ (typ.)	3.3S: $\pm 3\%$ (typ.) others: $\pm 1\%$ (typ.)	3.3S: $\pm 3\%$ (typ.) others: $\pm 1\%$ (typ.)
Ripple (20MHz bandwidth)	<0.2% Vout +40mV (max.)	<0.2% Vout +40mV (max.)	<0.2% Vout +40mV (max.)
Noise (20MHz bandwidth)	<0.5% Vout +50mV (max.)	<0.5% Vout +50mV (max.)	<0.5% Vout +50mV (max.)
Temperature Coefficient	$\pm 0.02\%$ / °C (max.)	$\pm 0.02\%$ / °C (max.)	$\pm 0.02\%$ / °C (max.)
Short Circuit Protection	Current limit, Auto-recovery	Current limit, Auto-recovery	Current limit, Auto-recovery

General Specifications			
Characteristics	Conditions		
	SB03	SB05	SB08
Efficiency (see table list)	70% to 80% (typ.)	71% to 83% (typ.)	67% to 80% (typ.)
Frequency	300K Hz (typ.)	300K Hz (typ.)	300K Hz (typ.)
Isolation Voltage (Input to Output)	1600 VDC (min.)	1600 VDC (min.)	1600 VDC (min.)
Isolation Resistance	$10^9 \Omega$ (min.)	$10^9 \Omega$ (min.)	$10^9 \Omega$ (min.)
Operating Temperature (at Full Load)	-25 °C to +70 °C	-25 °C to +70 °C	-25 °C to +70 °C
Storage Temperature	-55 °C to +105 °C	-55 °C to +105 °C	-55 °C to +105 °C
Humidity	95% RH (max.)	95% RH (max.)	95% RH (max.)
Cooling	Free-air Convection	Free-air Convection	Free-air Convection

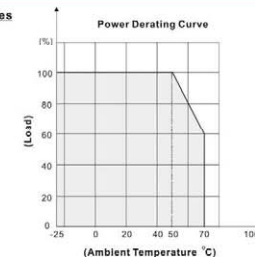
Physical Specifications			
Characteristics	Conditions		
	SB03	SB05	SB08
Dimension (Tolerance ± 0.5 mm)	31.8 x 20.3 x 10.2 mm	31.8 x 20.3 x 10.2 mm	31.8 x 20.3 x 10.2 mm
Weight	13 g	13 g	13 g
Case Material	Six-side shielded Aluminum with Non-Conductive base, Black Anodize		

Derating

SB03, SB05 Series



SB08 Series



SB03 Single Output (4:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
SB03-24-3.3S	9~36	3.3	900	70
SB03-24-5S	9~36	5	660	71
SB03-24-12S	9~36	12	330	80
SB03-24-15S	9~36	15	267	77
SB03-24-24S	9~36	24	166	78
SB03-48-3.3S	18~75	3.3	900	71
SB03-48-5S	18~75	5	660	73
SB03-48-12S	18~75	12	330	80
SB03-48-15S	18~75	15	267	79
SB03-48-24S	18~75	24	166	78

SB03 Dual Output (4:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
SB03-24-5D	9~36	± 5	± 300	73
SB03-24-12D	9~36	± 12	± 166	77
SB03-24-15D	9~36	± 15	± 133	75
SB03-48-5D	18~75	± 5	± 300	75
SB03-48-12D	18~75	± 12	± 166	79
SB03-48-15D	18~75	± 15	± 133	78

SB05 Single Output (4:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
SB05-24-3.3S	9~36	3.3	1200	71
SB05-24-5S	9~36	5	1000	75
SB05-24-12S	9~36	12	600	82
SB05-24-15S	9~36	15	400	79
SB05-24-24S	9~36	24	250	81
SB05-48-3.3S	18~75	3.3	1200	71
SB05-48-5S	18~75	5	1000	75
SB05-48-12S	18~75	12	500	82
SB05-48-15S	18~75	15	400	82
SB05-48-24S	18~75	24	250	81

SB05 Dual Output (4:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
SB05-24-5D	9~36	± 5	± 500	75
SB05-24-12D	9~36	± 12	± 250	78
SB05-24-15D	9~36	± 15	± 200	75
SB05-48-5D	18~75	± 5	± 500	77
SB05-48-12D	18~75	± 12	± 250	83
SB05-48-15D	18~75	± 15	± 200	81

SB08 Single Output (2:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
SB08-12-3.3S	9~18	3.3	2000	67
SB08-12-5S	9~18	5	1500	69
SB08-12-12S	9~18	12	666	76
SB08-12-15S	9~18	15	533	75
SB08-12-24S	9~18	24	333	68
SB08-24-3.3S	18~36	3.3	2000	72
SB08-24-5S	18~36	5	1500	73
SB08-24-12S	18~36	12	666	80
SB08-24-15S	18~36	15	533	80
SB08-24-24S	18~36	24	333	77
SB08-48-3.3S	36~75	3.3	2000	73
SB08-48-5S	36~75	5	1500	74
SB08-48-12S	36~75	12	666	80
SB08-48-15S	36~75	15	533	80
SB08-48-24S	36~75	24	333	79

SB08 Dual Output (2:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
SB08-12-5D	9~18	± 5	± 800	70
SB08-12-12D	9~18	± 12	± 333	75
SB08-12-15D	9~18	± 15	± 267	74
SB08-24-5D	18~36	± 5	± 800	73
SB08-24-12D	18~36	± 12	± 333	78
SB08-24-15D	18~36	± 15	± 267	74
SB08-48-5D	36~75	± 5	± 800	73
SB08-48-12D	36~75	± 12	± 333	77
SB08-48-15D	36~75	± 15	± 267	74

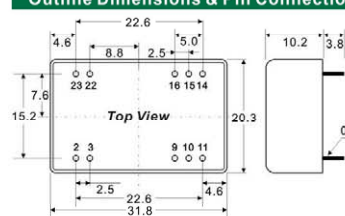
SB08 Single Output (4:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
SB08-24F-5S	9~36	5	1500	66
SB08-24F-12S	9~36	12	666	72
SB08-24F-15S	9~36	15	533	71
SB08-48F-5S	18~75	5	1500	73

SB08 Dual Output (4:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
SB08-24F-15D	9~36	± 15	± 267	74

Outline Dimensions & Pin Connections



Tolerance ± 0.5 mm

SH05 SERIES

5 Watt



---- Feature ----

- Power Module for PCB Mountable
- High Efficiency and Reliability
- 4:1 Wide Input Range
- Single and Dual Output
- Regulated Output
- Low Ripple and Noise
- Ultra Compact Size: 1.25 x 0.8 x 0.44 Inches
- 2-Years Product Warranty

SH08 SERIES

8 Watt



---- Feature ----

- Power Module for PCB Mountable
- High Efficiency and Reliability
- 4:1 Wide Input Range
- Single and Dual Output
- Regulated Output
- Low Ripple and Noise
- Ultra Compact Size: 1.25 x 0.8 x 0.44 Inches
- 2-Years Product Warranty

SH10 SERIES

10 Watt



---- Feature ----

- Power Module for PCB Mountable
- High Efficiency and Reliability
- 2:1 Input Range
- Single and Dual Output
- Regulated Output
- Low Ripple and Noise
- Ultra Compact Size: 1.25 x 0.8 x 0.44 Inches
- 2-Years Product Warranty

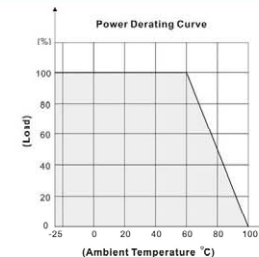
Input Specifications	Conditions		
	SH05	SH08	SH10
Characteristics			
Voltage Range	24V~9~36VDC 48V~18~75VDC	24V~9~36VDC 48V~18~75VDC	12V~9~18VDC 24V~18~36VDC 48V~36~75VDC
Filter	LC type	LC type	LC type

Output Specifications	Conditions		
	SH05	SH08	SH10
Characteristics			
Output Power	6 Watt (max.)	8 Watt (max.)	10 Watt (max.)
Voltage Accuracy (Full Load and Nominal Vin)	±2%	±2%	±2%
Minimum Load (at Full Load)	0%	0%	0%
Line Regulation (LI to HL at Full Load)	±0.5% (typ.)	±0.5% (typ.)	±0.5% (typ.)
Load Regulation (10% to 100% at Full Load)	3.3S: ±3% (typ.) others: ±1% (typ.)	±1% (typ.)	3.3S: ±3% (typ.) others: ±1% (typ.)
Ripple (20MHz bandwidth)	<0.2% Vout +40mV (max.)	50mV (Vp-p) (max.)	3.3S: 50mV (Vp-p) (max.) 5S~24S: 1% Vout (max.) Dual: <0.2% Vout +20mV(max.)
Noise (20MHz bandwidth)	<0.5% Vout +50mV (max.)	Single: 100mV (Vp-p) (max.) Dual: <0.5% Vout +50mV(max.)	3.3S: 50mV (Vp-p) (max.) 5S~24S: 1% Vout (max.) Dual: <0.5% Vout +50mV(max.)
Temperature Coefficient	±0.02% / °C (max.)	±0.02% / °C (max.)	±0.02% / °C (max.)
Short Circuit Protection	Current limit, Auto-recovery	Current limit, Auto-recovery	Current limit, Auto-recovery

General Specifications	Conditions		
	SH05	SH08	SH10
Characteristics			
Efficiency (see table list)	76% to 84% (typ.)	79% to 85% (typ.)	82% to 87% (typ.)
Frequency	300K Hz (typ.)	300K Hz (typ.)	300K Hz (typ.)
Isolation Voltage (Input to Output)	1600 VDC (min.)	1600 VDC (min.)	1600 VDC (min.)
Isolation Resistance	10 ⁷ Ω (min.)	10 ⁷ Ω (min.)	10 ⁷ Ω (min.)
Operating Temperature	-25 C to +60 C (at Full Load)	-25 C to +60 C (at Full Load)	-25 C to +60 C (at Full Load)
Storage Temperature	-55 C to +105 C	-55 C to +105 C	-55 C to +105 C
Humidity	95% RH (max.)	95% RH (max.)	95% RH (max.)
Cooling	Free-air Convection	Free-air Convection	Free-air Convection

Physical Specifications	Conditions		
	SH05	SH08	SH10
Characteristics			
Dimension (Tolerance ±0.5 mm)	31.8 x 20.3 x 11.2 mm 1.25 x 0.8 x 0.44 inches	31.8 x 20.3 x 11.2 mm 1.25 x 0.8 x 0.44 inches	31.8 x 20.3 x 11.2 mm 1.25 x 0.8 x 0.44 inches
Weight	20 g	20 g	20 g
Case Material	Nickel-Coated Copper with Non-conductive Base, Six-side Shielded		

Derating



SH05 Single Output (4:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max	Eff (%)
SH05-24F-3.3S	9~36	3.3	1200	78
SH05-24F-5S	9~36	5	1000	78
SH05-24F-12S	9~36	12	500	84
SH05-24F-15S	9~36	15	400	82
SH05-24F-24S	9~36	24	250	82
SH05-48F-3.3S	18~75	3.3	1200	76
SH05-48F-5S	18~75	5	1000	79
SH05-48F-12S	18~75	12	500	81
SH05-48F-15S	18~75	15	400	80
SH05-48F-24S	18~75	24	250	80

SH05 Dual Output (4:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max	Eff (%)
SH05-24F-5D	9~36	±5	±500	81
SH05-24F-12D	9~36	±12	±250	83
SH05-24F-15D	9~36	±15	±200	83
SH05-48F-5D	18~75	±5	±500	81
SH05-48F-12D	18~75	±12	±250	84
SH05-48F-15D	18~75	±15	±200	83

SH08 Single Output (4:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max	Eff (%)
SH08-24F-3.3S	9~36	3.3	2200	79
SH08-24F-5S	9~36	5	1600	82
SH08-24F-12S	9~36	12	666	82
SH08-24F-15S	9~36	15	533	81
SH08-24F-24S	9~36	24	333	81
SH08-48F-3.3S	18~75	3.3	2200	80
SH08-48F-5S	18~75	5	1600	84
SH08-48F-12S	18~75	12	666	84
SH08-48F-15S	18~75	15	533	83
SH08-48F-24S	18~75	24	333	83

SH08 Dual Output (4:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max	Eff (%)
SH08-24F-5D	9~36	±5	±800	82
SH08-24F-12D	9~36	±12	±333	85
SH08-24F-15D	9~36	±15	±267	85
SH08-48F-5D	18~75	±5	±800	82
SH08-48F-12D	18~75	±12	±333	85
SH08-48F-15D	18~75	±15	±267	85

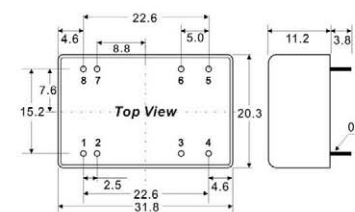
SH10 Single Output (2:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max	Eff (%)
SH10-12-3.3S	9~18	3.3	2500	82
SH10-12-5S	9~18	5	2000	83
SH10-12-12S	9~18	12	830	86
SH10-12-15S	9~18	15	670	86
SH10-12-24S	9~18	24	416	86
SH10-24-3.3S	18~36	3.3	2500	82
SH10-24-5S	18~36	5	2000	85
SH10-24-12S	18~36	12	830	86
SH10-24-15S	18~36	15	670	86
SH10-24-24S	18~36	24	416	86
SH10-48-3.3S	36~75	3.3	2500	82
SH10-48-5S	36~75	5	2000	85
SH10-48-12S	36~75	12	830	86
SH10-48-15S	36~75	15	670	86
SH10-48-24S	36~75	24	416	86

SH10 Dual Output (2:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max	Eff (%)
SH10-12-5D	9~18	±5	±1000	83
SH10-12-12D	9~18	±12	±416	86
SH10-12-15D	9~18	±15	±333	86
SH10-24-5D	18~36	±5	±1000	83
SH10-24-12D	18~36	±12	±416	87
SH10-24-15D	18~36	±15	±333	86
SH10-48-5D	36~75	±5	±1000	82
SH10-48-12D	36~75	±12	±416	87
SH10-48-15D	36~75	±15	±333	86

Outline Dimensions & Pin Connections



Pin#	Single	Dual
1	-VIN	-VIN
2	-VIN	-VIN
3	NO PIN	COMMON
4	NC	-VOUT
5	+VOUT	+VOUT
6	-VOUT	COMMON
7	+VIN	+VIN
8	+VIN	+VIN

SW15 SERIES

15 Watt



--- Feature ---

- Smaller Dimension with High Efficiency
- Power Module for PCB Mountable
- 2:1 Input Range
- Regulated Output
- Low Ripple and Noise
- Screw Terminal For Optional
- Detail See Attachment , Page 76
- Ultra Compact Size: 1.0 x 1.0 x 0.433 Inches
- 2-Years Product Warranty

Input Specifications	
Characteristics	Conditions
Voltage Range	12V~9~18VDC 24V~18~36VDC 48V~36~75VDC
Filter	L-C type

Output Specifications	
Characteristics	Conditions
Output Power	15 Watt (max.)
Voltage Accuracy (Full Load and Nominal Vin)	±2%
Line Regulation (LL to HL at Full Load)	±0.5% (typ.)
Load Regulation (10% to 100% at Full Load)	±1% (typ.)
Ripple (20MHz bandwidth)	3.3S,5S:75mV (max.) 12,15S:100mV (max.)
Noise (20MHz bandwidth)	3.3S,5S:100mV (max.) 12,15S:125mV (max.)
Temperature Coefficient	±0.02% / °C (max.)
Short Circuit Protection	Current limit, Auto-recovery

General Specifications	
Characteristics	Conditions
Efficiency (see table list)	84% to 89% (typ.)
Frequency	3.3S,5S: 450K Hz (typ.) 12S,15S: 300K Hz (typ.)
Isolation Voltage (Input to Output)	1600 VDC (min.)
Isolation Resistance	10 ⁹ Ω (min.)
Operating Temperature	-40 °C to +85 °C (with Derating)
Storage Temperature	-55 °C to +105 °C
Humidity	95% RH (max.)
Cooling	Free-air Convection

Physical Specifications	
Characteristics	Conditions
Dimension (Tolerance ±0.5 mm)	25.4 x 25.4 x 11.0 mm 1.0 x 1.0 x 0.433 inches
Weight	15 g
Case Material	Six-side shielded Aluminum with Non-Conductive base, Black Anodize

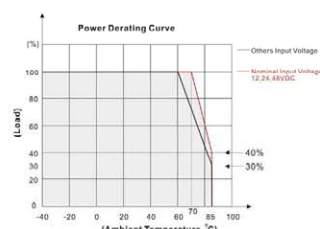
Screw Terminal For Optional(Page76/Page77) :

SW15 - 12 - 3.3S - **A2**
Option
A2 / A5=Screw Terminal

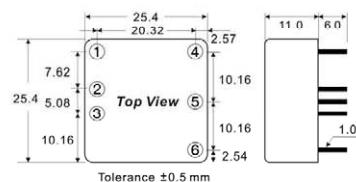
SW15 Single Output (2:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (I _{OA}) max.	Eff (%)
SW15-12-3.3S	9~18	3.3	3500	85
SW15-12-5S	9~18	5	3000	89
SW15-12-12S	9~18	12	1250	88
SW15-12-15S	9~18	15	1000	88
SW15-24-3.3S	18~36	3.3	3500	86
SW15-24-5S	18~36	5	3000	89
SW15-24-12S	18~36	12	1250	89
SW15-24-15S	18~36	15	1000	89
SW15-48-3.3S	36~75	3.3	3500	84
SW15-48-5S	36~75	5	3000	88
SW15-48-12S	36~75	12	1250	88
SW15-48-15S	36~75	15	1000	88

Derating



Outline Dimensions & Pin Connections



Pin#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	-DC OUT
5	NO PIN
6	+DC OUT

SW20 SERIES

20 Watt



--- Feature ---

- The Smallest Dimension in the Market
- Power Module for PCB Mountable
- 2:1 Input Range
- Regulated Output
- Low Ripple and Noise
- Screw Terminal For Optional
- Detail See Attachment , Page 76
- Ultra Compact Size: 1.0 x 1.0 x 0.433 Inches
- 2-Years Product Warranty

Input Specifications	
Characteristics	Conditions
Voltage Range	12V~9~18VDC 24V~18~36VDC 48V~36~75VDC
Filter	L-C type

Output Specifications	
Characteristics	Conditions
Output Power	20 Watt (max.)
Voltage Accuracy (Full Load and Nominal Vin)	±2%
Line Regulation (LL to HL at Full Load)	±0.5% (typ.)
Load Regulation (10% to 100% at Full Load)	±1% (typ.)
Ripple (20MHz bandwidth)	3.3S,5S:75mV (max.) 12,15S:100mV (max.)
Noise (20MHz bandwidth)	3.3S,5S:100mV (max.) 12,15S:125mV (max.)
Temperature Coefficient	±0.02% / °C (max.)
Short Circuit Protection	Current limit, Auto-recovery

General Specifications	
Characteristics	Conditions
Efficiency (see table list)	84% to 89% (typ.)
Frequency	3.3S,5S: 450K Hz (typ.) 12S,15S: 300K Hz (typ.)
Isolation Voltage (Input to Output)	1600 VDC (min.)
Isolation Resistance	10 ⁹ Ω (min.)
Operating Temperature	-40 °C to +85 °C (with Derating)
Storage Temperature	-55 °C to +105 °C
Humidity	95% RH (max.)
Cooling	Free-air Convection

Physical Specifications	
Characteristics	Conditions
Dimension (Tolerance ±0.5 mm)	25.4 x 25.4 x 11.0 mm 1.0 x 1.0 x 0.433 inches
Weight	15 g
Case Material	Six-side shielded Aluminum with Non-Conductive base, Black Anodize

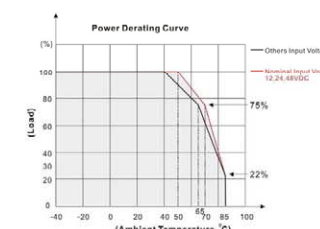
Screw Terminal For Optional(Page76/Page77) :

SW20 - 12 - 3.3S - **A2**
Option
A2 / A5=Screw Terminal

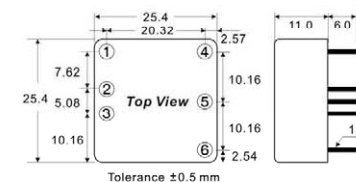
SW20 Single Output (2:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (I _{OA}) max.	Eff (%)
SW20-12-3.3S	9~18	3.3	4500	85
SW20-12-5S	9~18	5	4000	89
SW20-12-12S	9~18	12	1660	88
SW20-12-15S	9~18	15	1330	88
SW20-24-3.3S	18~36	3.3	4500	86
SW20-24-5S	18~36	5	4000	89
SW20-24-12S	18~36	12	1660	89
SW20-24-15S	18~36	15	1330	89
SW20-48-3.3S	36~75	3.3	4500	84
SW20-48-5S	36~75	5	4000	88
SW20-48-12S	36~75	12	1660	89
SW20-48-15S	36~75	15	1330	89

Derating



Outline Dimensions & Pin Connections



Pin#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	-DC OUT
5	NO PIN
6	+DC OUT

ST10 SERIES

10 Watt

ST15 SERIES

15 Watt



---- Feature ----
 Power Module for PCB Mountable
 2:1 & 4:1 Wide Input Range
 Regulated Output
 Low Ripple and Noise
 Remote ON/OFF Control (Optional)
 Screw Terminal for Optional
 Detail See Attachment , Page 76
 Standard 2" x 1" Package and Pinout
 CE, UL Approval
 2-Years Product Warranty

ST20 SERIES

20 Watt



---- Feature ----
 Power Module for PCB Mountable
 2:1 Input Range
 Synchronous Rectifier Topology
 Regulated Output
 Low Ripple and Noise
 Remote ON/OFF Control (Optional)
 Screw Terminal for Optional
 Detail See Attachment , Page 76
 Standard 2" x 1" Package and Pinout
 CE, UL Approval
 2-Years Product Warranty

Input Specifications			
Characteristics	Conditions		
	ST10	ST15	ST20
Voltage Range	2:1 Range 12V~9~18, 24V~18~36, 48V~36~75VDC		2:1 Range 24V~18~36VDC
Filter	4:1 Range 24V~10~40, 48V~18~75VDC	π type	48V~36~75VDC
	π type		π type

Output Specifications			
Characteristics	Conditions		
	ST10	ST15	ST20
Output Power	10 Watt (max.)	15 Watt (max.)	20 Watt (max.)
Voltage Accuracy (Full Load and Nominal Vin)	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$
Minimum Load (at Full Load)	0% to 3%	0% to 3%	—
Line Regulation (LL to HL at Full Load)	$\pm 0.5\%$ (typ.)	$\pm 0.5\%$ (typ.)	$\pm 0.5\%$ (typ.)
Load Regulation (10% to 100% at Full Load)	$\pm 1\%$ (typ.)	$\pm 1\%$ (typ.)	$\pm 1\%$ (typ.)
Ripple (20MHz bandwidth)	<0.2% Vout +40mV (max.)	<0.2% Vout +40mV (max.)	110mV (Vp-p) (Max.)
Noise (20MHz bandwidth)	<0.5% Vout +50mV (max.)	<0.5% Vout +50mV (max.)	200mV (Vp-p) (max.)
Temperature Coefficient	$\pm 0.02\%$ / °C (max.)	$\pm 0.02\%$ / °C (max.)	$\pm 0.02\%$ / °C (Max.)
Short Circuit Protection	Current limit, Auto-recovery	Current limit, Auto-recovery	Current limit, Auto-recovery

General Specifications			
Characteristics	Conditions		
	ST10	ST15	ST20
Efficiency (see table list)	66% to 85% (typ.)	70% to 87% (typ.)	83% to 87% (typ.)
Frequency	300K Hz (typ.)	300K Hz (typ.)	400K Hz (typ.)
Isolation Voltage (Input to Output)	1600 VDC (min.)	1600 VDC (min.)	1600 VDC (min.)
Isolation Resistance	$10^9 \Omega$ (min.)	$10^9 \Omega$ (min.)	$10^9 \Omega$ (min.)
Operating Temperature	-25 C to +70 C (2:1 Range: at Full Load / 4:1 Range: with Derating)	-25 C to +70 C (with Derating)	-25 C to +70 C (with Derating)
Storage Temperature	-55 C to +105 C	-55 C to +105 C	-55 C to +105 C
Humidity	95% RH (max.)	95% RH (max.)	95% RH (max.)
Cooling	Free-air Convection	Free-air Convection	Free-air Convection

Physical Specifications			
Characteristics	Conditions		
	ST10	ST15	ST20
Dimension (Tolerance ± 0.5 mm)	50.1 x 25.4 x 10.8 mm	50.1 x 25.4 x 10.8 mm	50.1 x 25.4 x 10.8 mm
Weight	1.97 x 1.0 x 0.425 inches 32 g	1.97 x 1.0 x 0.425 inches 32 g	1.97 x 1.0 x 0.425 inches 32 g
Case Material	Five-side shielded Aluminum with Non-Conductive base, Black Anodize		

ST10 Single Output (2:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
ST10-12-3.3S	9~18	3.3	2000	74
ST10-12-5S	9~18	5	2000	80
ST10-12-12S	9~18	12	830	81
ST10-12-15S	9~18	15	670	82
ST10-12-24S	9~18	24	420	81
ST10-24-3.3S	18~36	3.3	2000	74
ST10-24-5S	18~36	5	2000	81
ST10-24-12S	18~36	12	830	84
ST10-24-15S	18~36	15	670	85
ST10-24-24S	18~36	24	420	84
ST10-48-3.3S	36~75	3.3	2000	76
ST10-48-5S	36~75	5	2000	81
ST10-48-12S	36~75	12	830	84
ST10-48-15S	36~75	15	670	84
ST10-48-24S	36~75	24	420	84

ST10 Single Output (4:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
ST10-24F-3.3S	10~40	3.3	2000	67
ST10-24F-5S	10~40	5	2000	75
ST10-24F-12S	10~40	12	830	75
ST10-24F-15S	10~40	15	670	75
ST10-48F-3.3S	18~75	3.3	2000	66
ST10-48F-5S	18~75	5	2000	75
ST10-48F-12S	18~75	12	830	77
ST10-48F-15S	18~75	15	670	75

ST10 Dual Output (4:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
ST10-24F-5D	10~40	± 5	± 1000	75
ST10-24F-12D	10~40	± 12	± 415	75
ST10-24F-15D	10~40	± 15	± 333	75
ST10-48F-5D	18~75	± 5	± 1000	75
ST10-48F-12D	18~75	± 12	± 415	77
ST10-48F-15D	18~75	± 15	± 333	77

ST15 Single Output (2:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
ST15-12-3.3S	9~18	3.3	3000	77
ST15-12-5S	9~18	5	3000	80
ST15-12-12S	9~18	12	1250	82
ST15-12-15S	9~18	15	1000	84
ST15-12-24S	9~18	24	625	84
ST15-24-3.3S	18~36	3.3	3000	77
ST15-24-5S	18~36	5	3000	82
ST15-24-12S	18~36	12	1250	85
ST15-24-15S	18~36	15	1000	86
ST15-24-24S	18~36	24	625	87
ST15-48-3.3S	36~75	3.3	3000	79
ST15-48-5S	36~75	5	3000	83
ST15-48-12S	36~75	12	1250	86
ST15-48-15S	36~75	15	1000	87
ST15-48-24S	36~75	24	625	87

ST15 Single Output (4:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
ST15-24F-3.3S	10~40	3.3	3000	70
ST15-24F-5S	10~40	5	3000	76
ST15-24F-12S	10~40	12	1250	77
ST15-24F-15S	10~40	15	1000	75
ST15-48F-3.3S	18~75	3.3	3000	71
ST15-48F-5S	18~75	5	3000	78
ST15-48F-12S	18~75	12	1250	79
ST15-48F-15S	18~75	15	1000	79

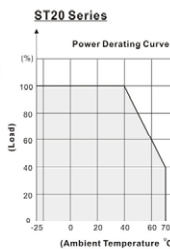
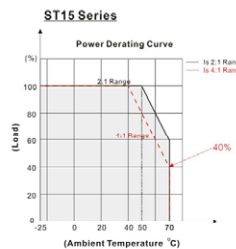
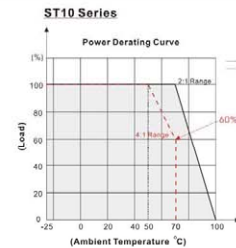
ST15 Dual Output (4:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
ST15-24F-5D	10~40	± 5	± 1500	78
ST15-24F-12D	10~40	± 12	± 625	79
ST15-24F-15D	10~40	± 15	± 500	79
ST15-48F-5D	18~75	± 5	± 1500	78
ST15-48F-12D	18~75	± 12	± 625	79
ST15-48F-15D	18~75	± 15	± 500	79

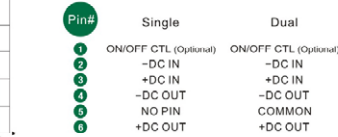
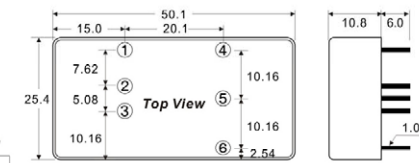
ST20 Single Output (2:1 Range)

Model No.	Input Voltage (V _{DC})	Output Voltage (V _{DC})	Output Current (mA) max.	Eff (%)
ST20-24-2.5S	18~36	2.5	4000	83
ST20-24-3.3S	18~36	3.3	4000	86
ST20-24-5S	18~36	5	4000	87
ST20-48-2.5S	36~75	2.5	4000	83
ST20-48-3.3S	36~75	3.3	4000	86
ST20-48-5S	36~75	5	4000	87

Derating

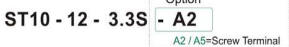


Outline Dimensions & Pin Connections



Application Note: Remote On/ Off
 Positive logic remote on/ off turns the module on during a logic high voltage on the remote on/ off pin, and off during a logic low.
 To turn the power module on and off, the user must supply a switch to control the voltage between the on/ off terminal and the -Vin terminal.

Screw Terminal For Optional (Page76/Page77):



ST30 SERIES

30 Watt



--- Feature ---

- Smaller Size (2"x1") with High Efficiency
- Power Module for PCB Mountable
- 2:1 Input Range
- Regulated Output
- Low Ripple and Noise
- Remote ON/OFF Control (Optional)
- Screw Terminal For Optional
- Detail See Attachment , Page 76
- Ultra Compact Size: 1.0 x 1.0 x 0.433 Inches
- 2-Years Product Warranty

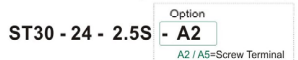
Input Specifications	
Characteristics	Conditions
Voltage Range	24V~18~36VDC 48V~36~75VDC
Filter	π type

Output Specifications	
Characteristics	Conditions
Output Power	30 Watt (max.)
Voltage Accuracy (Full Load and Nominal Vin)	±2%
Minimum Load (at Full Load)	0% to 1%
Line Regulation (LL to HL at Full Load)	±0.5% (typ.)
Load Regulation (10% to 100% at Full Load)	±1% (typ.)
Ripple (20MHz bandwidth)	2.5~5S:50mV (max.) 5D:60mV (max.) others:<0.2% Vout +40mV
Noise (20MHz bandwidth)	2.5~5S:100mV (max.) 5D:120mV (max.) others:<0.5% Vout +50mV
Temperature Coefficient	±0.02% / °C (max.)
Short Circuit Protection	Current limit, Auto-recovery

General Specifications	
Characteristics	Conditions
Efficiency (see table list)	84% to 90% (typ.)
Frequency	400K Hz (typ.)
Isolation Voltage (Input to Output)	1600 VDC (min.)
Isolation Resistance	10 ⁹ Ω (min.)
Operating Temperature	-40 C to +85 C (with Derating)
Storage Temperature	-55 C to +105 C
Humidity	95% RH (max.)
Cooling	Free-air Convection

Physical Specifications	
Characteristics	Conditions
Dimension (Tolerance ±0.5 mm)	50.8 x 25.4 x 11.0 mm 2.0 x 1.0 x 0.433 inches
Weight	33 g
Case Material	Five-side shielded Aluminum with Non-Conductive base, Black Anodize

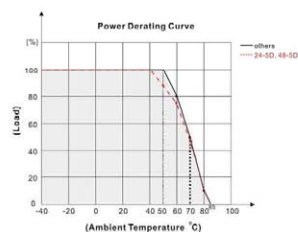
Screw Terminal For Optional (Page76/Page77) :



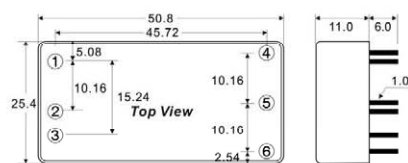
ST30 Single Output (2:1 Range)

Model No.	Input Voltage (V.DC)	Output Voltage (V.DC)	Output Current (mA) max.	Eff (%)
ST30-24-2.5S	18~36	2.5	6000	84
ST30-24-3.3S	18~36	3.3	6000	87
ST30-24-5S	18~36	5	6000	90
ST30-24-12S	18~36	12	2500	88
ST30-24-15S	18~36	15	2000	88
ST30-24-24S	18~36	24	1250	88
ST30-48-2.5S	36~75	2.5	6000	85
ST30-48-3.3S	36~75	3.3	6000	88
ST30-48-5S	36~75	5	6000	90
ST30-48-12S	36~75	12	2500	88
ST30-48-15S	36~75	15	2000	88
ST30-48-24S	36~75	24	1250	88

Derating



Outline Dimensions & Pin Connections



Tolerance ±0.5 mm

Pin#	Single	Dual	24V out
1	CTRL	CTRL	CTRL
2	-DC IN	-DC IN	-DC IN
3	+DC IN	+DC IN	+DC IN
4	TRIM	-DC OUT	NC
5	-DC OUT	COMMON	-DC OUT
6	+DC OUT	+DC OUT	+DC OUT

Application Note: Remote On/Off

Positive logic remote on/off turns the module on during a logic high voltage on the remote on/off pin, and off during a logic low. To turn the power module on and off, the user must supply a switch to control the voltage between the on/off terminal and the -Vin terminal.

SF30 SERIES

30 Watt



--- Feature ---

- High Efficiency Up To 87%
- Power Module for PCB Mountable
- 4:1 Wide Input Range
- Six-side Continuous Shield
- Standard Package
- Screw Terminal For Optional
- Detail See Attachment , Page 76
- Ultra Compact Size: 2.0 x 1.6 x 0.47 Inches
- 2-Years Product Warranty

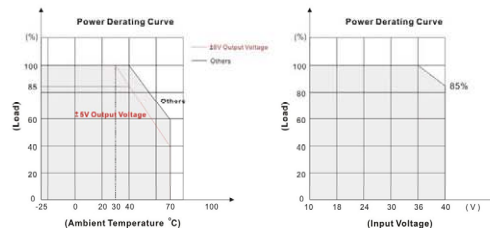
Input Specifications	
Characteristics	Conditions
Voltage Range	24V~10~40VDC 48V~18~75VDC
Filter	π type

Output Specifications	
Characteristics	Conditions
Output Power	30 Watt (max.)
Voltage Accuracy (Full Load and Nominal Vin)	±2%
Line Regulation (LL to HL at Full Load)	±0.5% (typ.)
Load Regulation (10% to 100% at Full Load)	±1% (typ.)
Ripple & Noise (20MHz bandwidth)	2.5~5S:100mV (max.) others: ±1% Vout (max.)
Temperature Coefficient	±0.02% / °C (max.)
Short Circuit Protection	Hiccup mode, Auto-recovery

General Specifications	
Characteristics	Conditions
Efficiency (see table list)	76% to 87% (typ.)
Frequency	250K Hz (typ.)
Isolation Voltage (Input to Output)	1600 VDC (min.)
Isolation Resistance	10 ⁹ Ω (min.)
Operating Temperature	-25 C to +70 C (with Derating)
Storage Temperature	-55 C to +105 C
Humidity	95% RH (max.)
Cooling	Free-air Convection

Physical Specifications	
Characteristics	Conditions
Dimension (Tolerance ±0.5 mm)	50.8 x 40.6 x 11.9 mm 2.0 x 1.6 x 0.47 inches
Weight	58 g
Case Material	Five-side shielded Aluminum with Non-Conductive base, Black Anodize

Derating



SF30 Single Output (4:1 Range)

Model No.	Input Voltage (V.DC)	Output Voltage (V.DC)	Output Current (mA) max.	Eff (%)
SF30-24-2.5S	10~40	2.5	6000	76
SF30-24-3.3S	10~40	3.3	6000	83
SF30-24-5S	10~40	5	6000	83
SF30-24-12S	10~40	12	2500	83
SF30-24-15S	10~40	15	2000	80
SF30-24-24S	10~40	24	1250	84
SF30-48-2.5S	18~75	2.5	6000	81
SF30-48-3.3S	18~75	3.3	6000	85
SF30-48-5S	18~75	5	6000	87
SF30-48-12S	18~75	12	2500	86
SF30-48-15S	18~75	15	2000	85
SF30-48-24S	18~75	24	1250	86

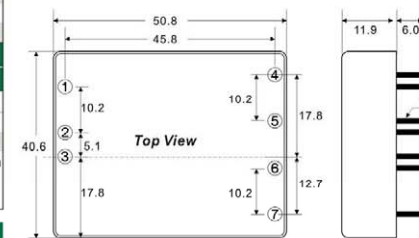
SF30 Dual Output (4:1 Range)

Model No.	Input Voltage (V.DC)	Output Voltage (V.DC)	Output Current (mA) max.	Eff (%)
SF30-24-5D	10~40	±5	±3000	81
SF30-24-12D	10~40	±12	±1250	84
SF30-24-15D	10~40	±15	±1000	83
SF30-48-5D	18~75	±5	±3000	84
SF30-48-12D	18~75	±12	±1250	86
SF30-48-15D	18~75	±15	±1000	85

Screw Terminal For Optional (Page76/Page77) :



Outline Dimensions & Pin Connections



Tolerance ±0.5 mm

Pin#	Single	Dual
1	CTRL	CTRL
2	-DC IN	-DC IN
3	+DC IN	+DC IN
4	TRIM	TRIM
5	-DC OUT	-DC OUT
6	+DC OUT	COMMON
7	NO PIN	+DC OUT

Application Note: Remote On/Off

Positive logic remote on/off turns the module on during a logic high voltage on the remote on/off pin, and off during a logic low. To turn the power module on and off, the user must supply a switch to control the voltage between the on/off terminal and the -Vin terminal.

SK30 SERIES

30 Watt



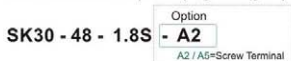
Input Specifications	
Characteristics	Conditions
Voltage Range	48V~36~75VDC
Filter	π type

Output Specifications	
Characteristics	Conditions
Output Power	30 Watt (max.)
Voltage Accuracy (Full Load and Nominal Vin)	±2%
Line Regulation (LL to HL at Full Load)	±0.5% (typ.)
Load Regulation (10% to 100% at Full Load)	±1% (typ.)
Ripple (20MHz bandwidth)	1.8S~3.3S:50mV (Vp-p) 5S~24S:±1% Vout(max.)
Noise (20MHz bandwidth)	1.8S~3.3S:100mV (Vp-p) 5S~24S:±1% Vout(max.)
Temperature Coefficient	±0.02% / °C (max.)
Short Circuit Protection	Hiccup mode, Auto-recovery

General Specifications	
Characteristics	Conditions
Efficiency (see table list)	83% to 87% (typ.)
Frequency	400K Hz (typ.)
Isolation Voltage (Input to Output)	1600 VDC (min.)
Isolation Resistance	10 ⁹ Ω (min.)
Operating Temperature	-25 °C to +70 °C (with Derating)
Storage Temperature	-55 °C to +105 °C
Humidity	95% RH (max.)
Cooling	Free-air Convection

Physical Specifications	
Characteristics	Conditions
Dimension (Tolerance ±0.5 mm)	50.8 x 40.6 x 11.9 mm 2.0 x 1.6 x 0.47 inches
Weight	58 g
Case Material	Five-side shielded Aluminum with Non-Conductive base, Black Anodize

Screw Terminal For Optional (Page 76 / Page 77) :



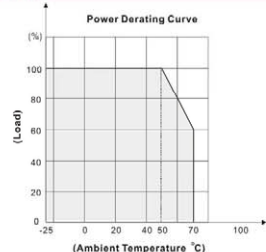
--- Feature ---

- High Efficiency Up To 87%
- Power Module for PCB Mountable
- 2:1 Input Range
- Six-side Continuous Shield
- Standard Package
- Screw Terminal For Optional
- Detail See Attachment, Page 76
- Ultra Compact Size: 2.0 x 1.6 x 0.47 Inches
- 2-Years Product Warranty

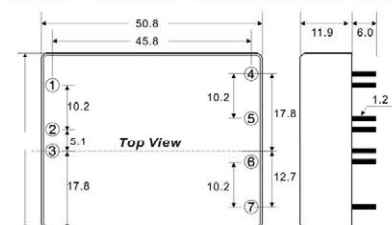
►► SK30 Single Output (2:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max.	Eff (%)
SK30-48-1.8S	36~75	1.8	6000	83
SK30-48-2.5S	36~75	2.5	6000	83
SK30-48-3.3S	36~75	3.3	6000	83
SK30-48-5S	36~75	5	6000	87
SK30-48-12S	36~75	12	2500	83
SK30-48-15S	36~75	15	2000	83
SK30-48-24S	36~75	24	1250	83

Derating



Outline Dimensions & Pin Connections



Pin#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	TRIM
5	-DC OUT
6	+DC OUT
7	NO PIN

Application Note: Remote On/ Off

Positive logic remote on/ off turns the module on during a logic high voltage on the remote on/ off pin, and off during a logic low.

To turn the power module on and off, the user must supply a switch to control the voltage between the on/ off terminal and the -Vin terminal.

SK40 SERIES

40 Watt



Input Specifications	
Characteristics	Conditions
Voltage Range	48V~36~75VDC
Filter	π type

Output Specifications	
Characteristics	Conditions
Output Power	40 Watt (max.)
Voltage Accuracy (Full Load and Nominal Vin)	±2%
Line Regulation (LL to HL at Full Load)	±0.5% (typ.)
Load Regulation (10% to 100% at Full Load)	±1% (typ.)
Ripple (20MHz bandwidth)	1.8S~3.3S:50mV (Vp-p) 5S~24S:±1% Vout(max.)
Noise (20MHz bandwidth)	1.8S~3.3S:100mV (Vp-p) 5S~24S:±1% Vout(max.)
Temperature Coefficient	±0.02% / °C (max.)
Short Circuit Protection	Hiccup mode, Auto-recovery

General Specifications	
Characteristics	Conditions
Efficiency (see table list)	78% to 86% (typ.)
Frequency	400K Hz (typ.)
Isolation Voltage (Input to Output)	1600 VDC (min.)
Isolation Resistance	10 ⁹ Ω (min.)
Operating Temperature	-25 °C to +70 °C (with Derating) (40°C Full Load with 18 CFM Air Flow)
Storage Temperature	-55 °C to +105 °C
Humidity	95% RH (max.)
Cooling	Free-air Convection

Physical Specifications	
Characteristics	Conditions
Dimension (Tolerance ±0.5 mm)	50.8 x 40.6 x 11.9 mm 2.0 x 1.6 x 0.47 inches
Weight	58 g
Case Material	Five-side shielded Aluminum with Non-Conductive base, Black Anodize

Screw Terminal For Optional (Page 76 / Page 77) :



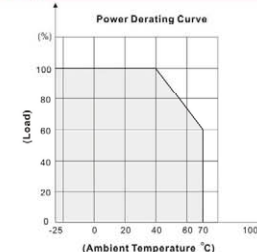
--- Feature ---

- High Efficiency Up To 86%
- Power Module for PCB Mountable
- 2:1 Input Range
- Six-side Continuous Shield
- Standard Package
- Screw Terminal For Optional
- Detail See Attachment, Page 76
- Ultra Compact Size: 2.0 x 1.6 x 0.47 Inches
- 2-Years Product Warranty

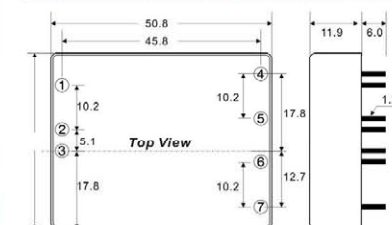
►► SK40 Single Output (2:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max.	Eff (%)
SK40-48-1.8S	36~75	1.8	8000	78
SK40-48-2.5S	36~75	2.5	8000	82
SK40-48-3.3S	36~75	3.3	8000	84
SK40-48-5S	36~75	5	8000	86
SK40-48-12S	36~75	12	3333	83
SK40-48-15S	36~75	15	2666	83
SK40-48-24S	36~75	24	1666	84

Derating



Outline Dimensions & Pin Connections



Pin#	Single
1	CTRL
2	-DC IN
3	+DC IN
4	TRIM
5	-DC OUT
6	+DC OUT
7	NO PIN

Application Note: Remote On/ Off

Positive logic remote on/ off turns the module on during a logic high voltage on the remote on/ off pin, and off during a logic low.

To turn the power module on and off, the user must supply a switch to control the voltage between the on/ off terminal and the -Vin terminal.

SU20 SERIES

20 Watt



---- Feature ----
Power Module for PCB Mountable
2:1 & 4:1 Wide Input Range
Regulated Output
Low Ripple and Noise
Vout Trim and ON/OFF Control Function
Screw Terminal for Optional
Detail See Attachment , Page 76
Ultra Compact Size:
2.0 x 2.0 x 0.45 Inches
2-Years Product Warranty

SU40 SERIES

40 Watt



---- Feature ----
Power Module for PCB Mountable
2:1 Input Range
Regulated Output
Low Ripple and Noise
Synchronous-rectifier Topologies
Vout Trim and ON/OFF Control Function
Screw Terminal for Optional
Detail See Attachment , Page 76
Ultra Compact Size:
2.0 x 2.0 x 0.45 Inches
2-Years Product Warranty

SU20 Single Output (2:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max.	Eff (%)
SU20-12-3.3S	9-18	3.3	4000	76
SU20-12-5S	9-18	5	4000	78
SU20-12-12S	9-18	12	1670	81
SU20-12-15S	9-18	15	1330	82
SU20-12-24S	9-18	24	833	83
SU20-24-3.3S	18-36	3.3	4000	78
SU20-24-5S	18-36	5	4000	81
SU20-24-12S	18-36	12	1670	86
SU20-24-15S	18-36	15	1330	85
SU20-24-24S	18-36	24	833	88
SU20-48-3.3S	36-75	3.3	4000	76
SU20-48-5S	36-75	5	4000	82
SU20-48-12S	36-75	12	1670	84
SU20-48-15S	36-75	15	1330	85
SU20-48-24S	36-75	24	833	87

SU20 Dual Output (2:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max.	Eff (%)
SU20-12-5D	9-18	±5	±2000	77
SU20-12-12D	9-18	±12	±833	81
SU20-12-15D	9-18	±15	±660	82
SU20-24-5D	18-36	±5	±2000	82
SU20-24-12D	18-36	±12	±833	84
SU20-24-15D	18-36	±15	±660	85
SU20-48-5D	36-75	±5	±2000	83
SU20-48-12D	36-75	±12	±833	85
SU20-48-15D	36-75	±15	±660	84

SU20 Triple Output (2:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max.	Eff (%)
SU20-12-5S12D	9-18	5 / ±12	2500 / ±300	79
SU20-12-5S15D	9-18	5 / ±15	2500 / ±250	77
SU20-24-5S12D	18-36	5 / ±12	2500 / ±300	83
SU20-24-5S15D	18-36	5 / ±15	2500 / ±250	81
SU20-48-5S12D	36-75	5 / ±12	2500 / ±300	83
SU20-48-5S15D	36-75	5 / ±15	2500 / ±250	84

SU20 Single Output (4:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max.	Eff (%)
SU20-24F-3.3S	10-40	3.3	4000	82
SU20-24F-5S	10-40	5	4000	84
SU20-24F-12S	10-40	12	1670	82
SU20-24F-15S	10-40	15	1330	82
SU20-24F-24S	10-40	24	833	82
SU20-48F-3.3S	18-75	3.3	4000	83
SU20-48F-5S	18-75	5	4000	85
SU20-48F-12S	18-75	12	1670	82
SU20-48F-15S	18-75	15	1330	82
SU20-48F-24S	18-75	24	833	82

SU20 Dual Output (4:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max.	Eff (%)
SU20-24F-5D	10-40	±5	±2000	81
SU20-24F-12D	10-40	±12	±833	82
SU20-24F-15D	10-40	±15	±660	82
SU20-48F-5D	18-75	±5	±2000	81
SU20-48F-12D	18-75	±12	±833	83
SU20-48F-15D	18-75	±15	±660	82

SU40 Single Output (2:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max.	Eff (%)
SU40-12-5S	9-18	5	8000	85
SU40-12-12S	9-18	12	3333	85
SU40-12-15S	9-18	15	2666	85
SU40-12-24S	9-18	24	1666	85
SU40-24-5S	18-36	5	8000	87
SU40-24-12S	18-36	12	3333	86
SU40-24-15S	18-36	15	2666	86
SU40-24-24S	18-36	24	1666	86
SU40-48-1.8S	36-75	1.8	8000	76
SU40-48-2.5S	36-75	2.5	8000	82
SU40-48-3.3S	36-75	3.3	8000	84
SU40-48-5S	36-75	5	8000	88
SU40-48-12S	36-75	12	3333	87
SU40-48-15S	36-75	15	2666	87
SU40-48-24S	36-75	24	1666	87

SU40 Dual Output (2:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max.	Eff (%)
SU40-12-5D	9-18	±5	±3500	82
SU40-12-12D	9-18	±12	±1666	85
SU40-12-15D	9-18	±15	±1320	85
SU40-24-5D	18-36	±5	±3500	83
SU40-24-12D	18-36	±12	±1666	86
SU40-24-15D	18-36	±15	±1320	86
SU40-48-5D	36-75	±5	±3500	84
SU40-48-12D	36-75	±12	±1666	87
SU40-48-15D	36-75	±15	±1320	87

SU40 Triple Output (2:1 Range)

Model No.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA) max.	Eff (%)
SU40-12-5S12D	9-18	5 / ±12	5000 / ±600	85
SU40-12-5S15D	9-18	5 / ±15	5000 / ±500	85
SU40-24-5S12D	18-36	5 / ±12	5000 / ±600	86
SU40-24-5S15D	18-36	5 / ±15	5000 / ±500	86
SU40-48-5S12D	36-75	5 / ±12	5000 / ±600	87
SU40-48-5S15D	36-75	5 / ±15	5000 / ±500	87

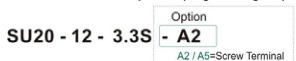
Input Specifications		
Characteristics	Conditions	
	SU20	SU40
Voltage Range	2:1 Range 12V~9~18, 24V~18~36, 48V~36~75VDC 4:1 Range 24V~10~40, 48V~18~75VDC	2:1 Range 12V~9~18, 24V~18~36, 48V~36~75VDC
Filter	π type	

Output Specifications		
Characteristics	Conditions	
	SU20	SU40
Output Power	20 Watt (max.)	40 Watt (max.)
Voltage Accuracy (Full Load and Nominal Vn)	±2%	Single, Dual: ±2% Triple: ±2% / ±5%
Minimum Load (at Full Load)		Single, Dual: 0% Triple: 10%
Line Regulation (LL to HL at Full Load)	Single, Dual: ±0.5% (typ.) Triple: ±1% / ±5% (typ.)	Single, Dual: ±0.5% (typ.) Triple: ±1% / ±5% (typ.)
Load Regulation (10% to 100% at Full Load)	Single: ±0.5% (typ.) Dual: ±3% (typ.) Triple: ±3% / ±5% (typ.)	Single: ±1% (typ.) Dual: ±2% (typ.) Triple: ±3% / ±5% (typ.)
Ripple (20MHz bandwidth)	<0.2% Vout +20mV (max.)	1.8~5S:50mV / others: ±1% Vout (max.)
Noise (20MHz bandwidth)	<0.5% Vout +50mV (max.)	1.8~5S:100mV / others: ±1% Vout (max.)
Temperature Coefficient	±0.02% / °C (max.)	±0.02% / °C (max.)
Short Circuit Protection	Hiccup mode, Auto-recovery	Hiccup mode, Auto-recovery

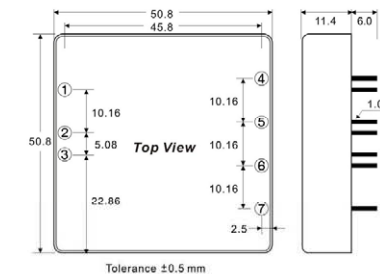
General Specifications		
Characteristics	Conditions	
	SU20	SU40
Efficiency (see table list)	76% to 88% (typ.)	76% to 88% (typ.)
Frequency	2:1 Range:200K Hz (typ.) 4:1 Range:250K Hz (typ.)	12V Input:200K / 5V Outputs:250K Hz (typ.) others:400K Hz (typ.)
Isolation Voltage (Input to Output)	1600 VDC (min.)	1600 VDC (min.)
Isolation Resistance	10 ⁷ Ω (min.)	10 ⁷ Ω (min.)
Operating Temperature	-25 C to +70 C (with Derating) (2:1 Range: at Full Load / 4:1 Range: with Derating)	-25 C to +70 C (with Derating) -55 C to +105 C
Storage Temperature	-55 C to +105 C	-55 C to +105 C
Humidity	95% RH (max.)	95% RH (max.)
Cooling	Free-air Convection	Free-air Convection

Physical Specifications		
Characteristics	Conditions	
	SU20	SU40
Dimension (Tolerance ±0.5 mm)	50.8 x 50.8 x 11.4 mm 2.0 x 2.0 x 0.45 inches	50.8 x 50.8 x 11.4 mm 2.0 x 2.0 x 0.45 inches
Weight	70 g	70 g
Case Material	Five-side shielded Aluminum with Non-Conductive base, Black Anodize	Five-side shielded Aluminum with Non-Conductive base, Black Anodize

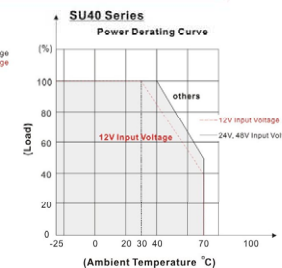
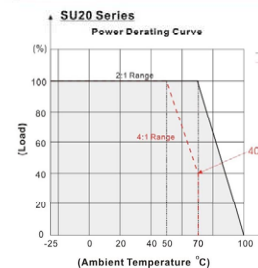
Screw Terminal For Optional(Page76/Page77) :



Outline Dimensions & Pin Connections



Derating

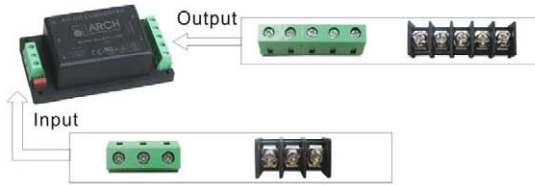


Pin#	Single	Dual	Triple
1	ON/OFF	ON/OFF	ON/OFF
2	-VIN	-VIN	-VIN
3	+VIN	+VIN	+VIN
4	TRIM	TRIM	-VOUT
5	-VOUT	-VOUT	COMMON
6	+VOUT	COMMON	+5V OUT
7	NC	+VOUT	+VOUT

Application Note: Remote On/ Off
 Positive logic remote on/ off turns the module on during a logic high voltage on the remote on/ off pin, and off during a logic low.
 To turn the power module on and off, the user must supply a switch to control the voltage between the on/ off terminal and the -Vin terminal.

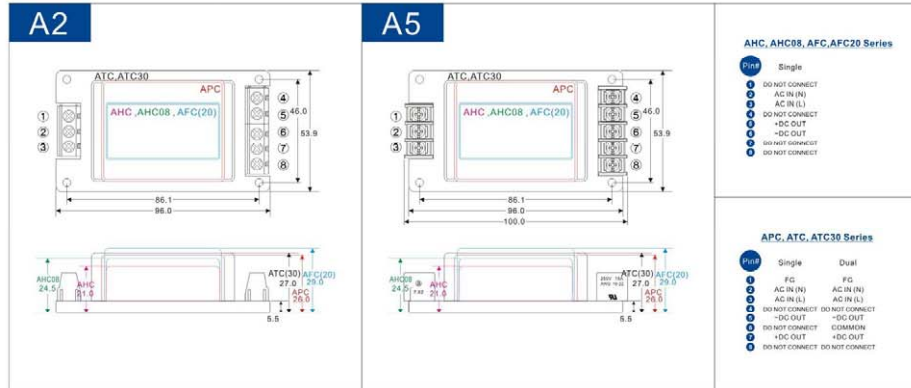
Screw Terminal Dimensions & Pin Connections

► AC-DC Power Module

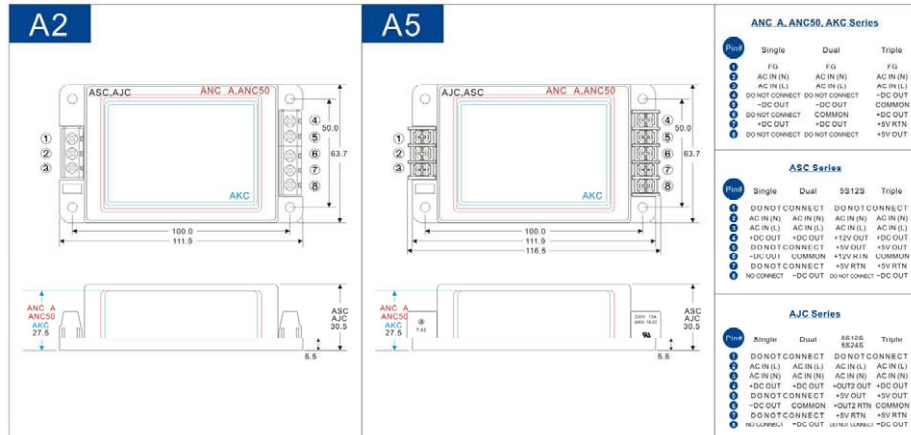


A2 (Input:3 PIN)	A5 (Input:3 PIN)
Suitable for: AHC(08) - APC - AFC(20) - ATC(20) - ANC A - AKC - ASC - AJC - ANC50	Suitable for: AHC(08) - APC - AFC(20) - ATC(20) - ANC A - AKC - ASC - AJC - ANC50

►► AHC, AHC08, AFC, AFC20, APC, ATC, ATC30 Series

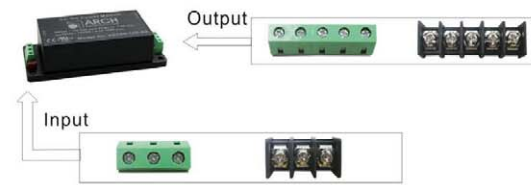


►► ANC A, AKC, ASC, AJC, ANC50 Series (AJC/AKC A2 Not Available in Europe)



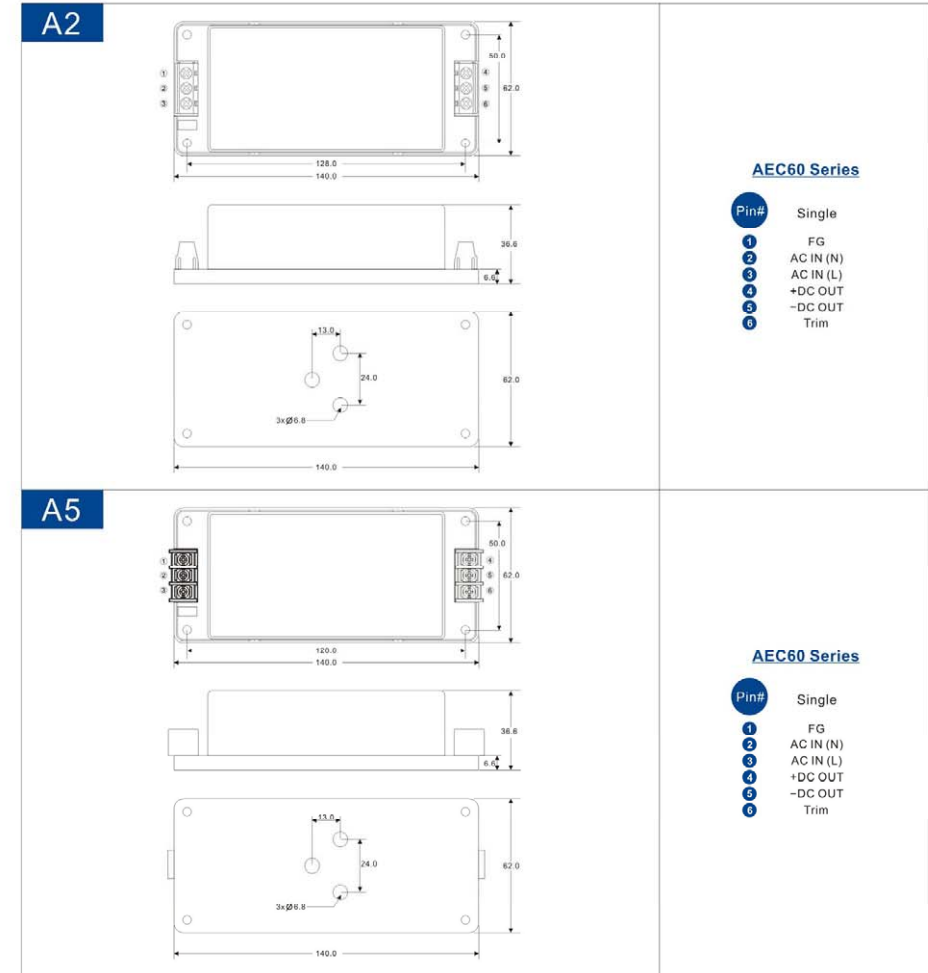
Screw Terminal Dimensions & Pin Connections

► AC-DC Power Module



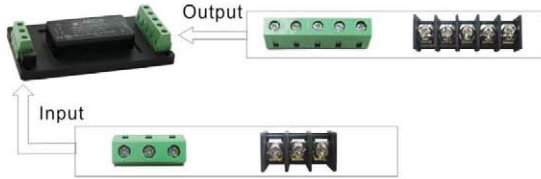
A2 (Input:3 PIN)	A5 (Input:3 PIN)
Suitable for: AEC60	Suitable for: AEC60

►► AEC60 Series



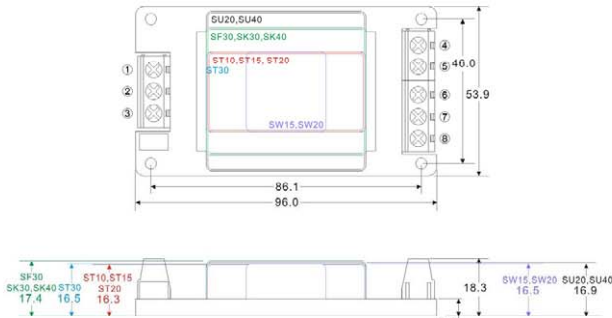
Screw Terminal Dimensions & Pin Connections

► DC-DC Converter



► SW, ST, SF, SK, SU Series

A2



ST10, ST15, ST20, SW15, SW20 Series

Pin	Single	Dual
1	CTRL	CTRL
2	-DC IN	-DC IN
3	+DC IN	+DC IN
4	-DC OUT	-DC OUT
5	+DC OUT	+DC OUT
6	NO CONNECT	NO CONNECT
7	NO CONNECT	COMMON
8	NO CONNECT	+DC OUT

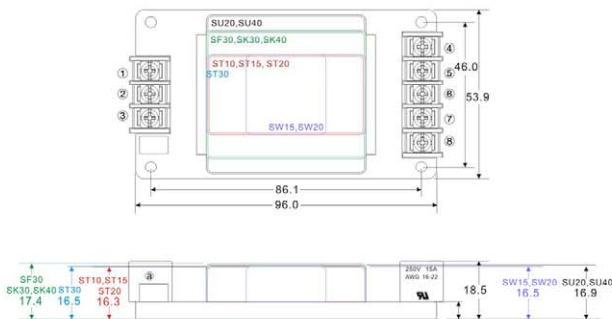
ST30 Series

Pin	Single	Dual	24Vout
1	CTRL	CTRL	CTRL
2	-DC IN	-DC IN	-DC IN
3	+DC IN	+DC IN	+DC IN
4	TRIM	-DC OUT	NO CONNECT
5	-DC OUT	COMMON	-DC OUT
6	NO CONNECT	NO CONNECT	NO CONNECT
7	+DC OUT	COMMON	+V OUT
8	NO CONNECT	NO CONNECT	-DC OUT

SF30, SK30, SK40, SU20, SU40 Series

Pin	Single	Dual	Triple
1	CTRL	CTRL	CTRL
2	-DC IN	-DC IN	-DC IN
3	+DC IN	+DC IN	+DC IN
4	TRIM	-DC OUT	NO CONNECT
5	-DC OUT	COMMON	-DC OUT
6	NO CONNECT	NO CONNECT	NO CONNECT
7	+DC OUT	COMMON	+V OUT
8	NO CONNECT	NO CONNECT	+DC OUT

A5



ST10, ST15, ST20, SW15, SW20 Series

Pin	Single	Dual
1	CTRL	CTRL
2	-DC IN	-DC IN
3	+DC IN	+DC IN
4	-DC OUT	-DC OUT
5	+DC OUT	+DC OUT
6	NO CONNECT	NO CONNECT
7	NO CONNECT	COMMON
8	NO CONNECT	+DC OUT

ST30 Series

Pin	Single	Dual	24Vout
1	CTRL	CTRL	CTRL
2	-DC IN	-DC IN	-DC IN
3	+DC IN	+DC IN	+DC IN
4	TRIM	-DC OUT	NO CONNECT
5	-DC OUT	COMMON	-DC OUT
6	NO CONNECT	NO CONNECT	NO CONNECT
7	+DC OUT	COMMON	+V OUT
8	NO CONNECT	NO CONNECT	-DC OUT

SF30, SK30, SK40, SU20, SU40 Series

Pin	Single	Dual	Triple
1	CTRL	CTRL	CTRL
2	-DC IN	-DC IN	-DC IN
3	+DC IN	+DC IN	+DC IN
4	TRIM	-DC OUT	NO CONNECT
5	-DC OUT	COMMON	-DC OUT
6	NO CONNECT	NO CONNECT	NO CONNECT
7	+DC OUT	COMMON	+V OUT
8	NO CONNECT	NO CONNECT	+DC OUT

Din Rail Accessory

► AC-DC Power Module

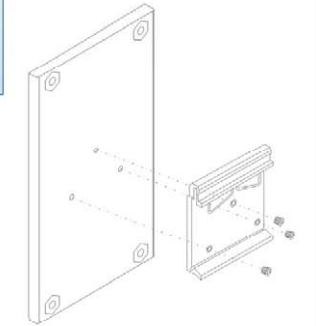
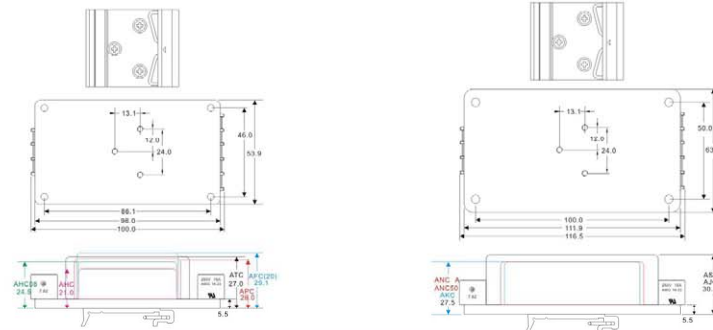


► AC-DC Power Module (please refer to www.archcorp.com.tw for detail spec.)

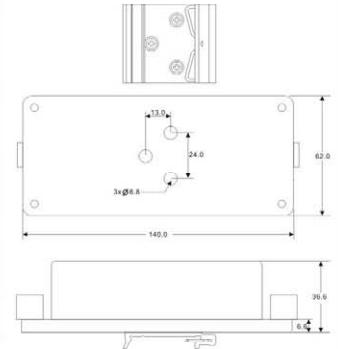
Series No.	O/P Watt	I/P Voltage	O/P Voltage (Vdc)	O/P Type	Isolation Voltage	Operating Temperature	Safety
AHC-A2-DN AHC-A5-DN	5W	90-264Vac	3.3 · 5 · 12 · 15 · 24	Single	3000Vac	-25~70°C or -40~70°C	UL · CE · RoHS
APC-A2-DN APC-A5-DN	5W	90-264Vac	3.3 · 5 · 12 · 15 · 24 ±5 · ±12 · ±15	Single Dual	3000Vac	-25~70°C or -40~70°C	UL · CE · TUV · RoHS
AHC00-A2-DN AHC00-A5-DN	8W	90-264Vac	3.3 · 3.8 · 5 · 8 · 9 · 12 · 14 · 15 · 24 5/3.3 · 8/5 · 12/5 · 12/7.5	Single Dual	3000Vac	-40~70°C	UL · CE · RoHS
AFC-A2-DN AFC-A5-DN	10W	90-264Vac	3.3 · 5 · 12 · 15 · 24	Single	3000Vac	-25~70°C or -40~70°C	UL · CE · CB RoHS
ATC-A2-DN ATC-A5-DN	10W	90-264Vac	3.3 · 5 · 12 · 15 · 24 ±5 · ±12 · ±15	Single Dual	3000Vac	-25~70°C or -40~70°C	UL · CE · TUV · RoHS
ANC A-A2-DN ANC A-A5-DN	15W	90-264Vac	5 · 12 · 15 · 24 ±5 · ±12 · ±15 5 / ±12 · 5 / ±15	Single Dual Triple	3000Vac	-25~70°C or -40~70°C	UL · CE · TUV · RoHS
AKG-A2-DN AKG-A5-DN	20W	90-264Vac	3.3 · 5 · 7.5 · 9 · 12 · 15 · 24 ±5 · ±12 · ±15 5 / ±12 · 5 / ±15	Single Dual Triple	3000Vac	-25~70°C	UL · CE · RoHS
AFC20-A2-DN AFC20-A5-DN	20W	90-264Vac	3.3 · 5 · 12 · 15 · 24	Single	3000Vac	-40~70°C	UL · CE · RoHS
ATC30-A2-DN ATC30-A5-DN	30W	90-305Vac	3.3 · 5 · 12 · 15 · 24 ±5 · ±12 · ±15	Single Dual	3000Vac	-40~70°C	UL · CE · TUV · RoHS
ASC-A2-DN ASC-A5-DN	30W	90-264Vac	3.3 · 5 · 12 · 15 · 24 ±5 · ±12 · ±15 · 5/12 5 / ±12 · 5 / ±15	Single Dual Triple	3000Vac	-40~70°C	UL · CE · CD · TUV · RoHS
AJC-A2-DN AJC-A5-DN	40W	90-264Vac	3.3 · 5 · 9 · 12 · 15 · 24 ±5 · ±12 · ±15 · 5/12 · 5/24 5 / ±12 · 5 / ±15	Single Dual Triple	3000Vac	-40~70°C	UL · CE · RoHS
ANC50-A2-DN ANC50-A5-DN	50W	90-305Vac	3.3 · 5 · 12 · 15 · 24 ±5 · ±12 · ±15	Single Dual	3000Vac	-40~70°C	UL · CE · TUV · RoHS
AEC60-A2-DN AEC60-A5-DN	60W	85-285Vac	5 · 9 · 12 · 15 · 24 · 48	Single	3000Vac	-40~70°C	UL · CE · RoHS

► AHC(08), AFC(20), APC, ATC(30) Series

► ANC A, ANC50, AKG, ASC, AJC Series



► AEC60 Series



NOTE



Inquiry for Customised / Modified

Company : _____

Name : _____ Dept : _____

TEL : _____ EXT. _____ FAX : _____

E-mail : _____

Modified from ARCH Standard Product : _____

MECHANICAL CONSTRUCTION :

- AC-DC Switching Power Supply AC-DC Power Module LED Power
- Open Frame Enclosed Frame Module Open Frame
- Din Rail U Bracket Din Rail IP65
- IP67
- AC-DC Medical Power Module DC-DC Converter

Dimension (max.): L: _____ W: _____ H: _____ mm Inches

INPUT SPECIFICATION :

Input Voltage : AC _____ ~ _____ VAC, _____ Hz

DC _____ VDC(nominal), Range _____ ~ _____ VDC

Start Voltage : _____ VDC

Input / Output Isolation : Yes No Isolation : _____ VDC VAC

OUTPUT SPECIFICATION :

		V1 <input type="checkbox"/> OVP	V2 <input type="checkbox"/> OVP	V3 <input type="checkbox"/> OVP	V4 <input type="checkbox"/> OVP
Voltage	(V)				
Current nom.	min.				
	max.				
Load Regulation (%)					
Ripple & Noise Vp-p (mV)					

Protection : Over Current Over Voltage Over Power Short Circuit

Total Output Power : _____ Watt @ _____ °C

GENERAL & ENVIRONMENTAL SPECIFICATION :

Operation Temperature : _____ ~ _____ °C Short Temperature : _____ ~ _____ °C

Trim : Yes No Temperature Coefficient : _____ % / °C

Remote ON/OFF Control : Yes No Efficiency : _____ %

MEI / RFI : _____

QUANTITIES : Prototype : _____ Pre-Production : _____ Production : _____ /Year

SCHEDULE : Prototype : _____ Pre-Production : _____ Production : _____ /Year

TARGET PRICE : _____ (Production Quantities)

NOTE

Alphabetic Model Number Index

New Product Announcement	P1
Index	P2 - P5
Model Number System	P6
General Information	P7
Screw Terminal Dimensions & Pin Connections	P74- P77

Model No.	Output Power	Products	Package Type	Page#
AEC60	60 W	AC-DC	Module	P24
AES60D / AES60E / AES60O / AES60U	60 W	Switching Power Supply	Din Rail / Enclosed / Open Frame / U Bracket	P28- P29
AFC	10 W	AC-DC	Module	P16
AFC20	20 W	AC-DC	Module	P17
AHC	5 W	AC-DC	Module	P12
AHC08	8 W	AC-DC	Module	P13
AIC	3 W	AC-DC	Module	P8
AJC	40 W	AC-DC	Module	P23
AKC	20 W	AC-DC	Module	P15
ALC	8 W	AC-DC	Module	P14
NEW ALF100	100 W	LED Power	IP65 Design for Indoor or LED Outdoor Installations	P50
NEW ALF150	150 W	LED Power	IP65 Design for Indoor or LED Outdoor Installations	P51
NEW ALF240	240 W	LED Power	IP65 Design for Indoor or LED Outdoor Installations	P52
ANC A	15 W	AC-DC	Module	P20
NEW ANC50	50 W	AC-DC	Module	P21
AOC	4 W	AC-DC	Module	P10
AOCH	4 W	AC-DC	Module	P11
APC	5 W	AC-DC	Module	P9
NEW AQC100	100 W	AC-DC	Module	P25
NEW AQC1000	100 W	Switching Power Supply	Open Frame	P30- P31
AQF120D / AQF120E / AQF120O / AQF120U	180 W	Switching Power Supply	Din Rail / Enclosed / Open Frame / U Bracket	P32- P33
AQF240D / AQF240E / AQF240U	240 W	Switching Power Supply	Din Rail / Enclosed / U Bracket	P34 - P35
AQF360E / AQF360F / AQF360U	360 W	Switching Power Supply	Enclosed / U Bracket	P36 - P37
NEW AQFC480E / AQFC480F / AQFC480U	480 W	Switching Power Supply	Enclosed / U Bracket	P40 - P41
NEW AQFV480E / AQFV480F / AQFV480U	480 W	Switching Power Supply	Enclosed / U Bracket	P38 - P39
ASC	30 W	AC-DC	Module	P22
ATC	10 W	AC-DC	Module	P18
NEW ATC30	30 W	AC-DC	Module	P19
MSC	40 W	AC-DC Mdeical	Module	P27
MTC	15 W	AC-DC Mdeical	Module	P26
NEW PLF16	16 W	LED Power	Fully Isolated Plastic Case with IP67 Level	P42
NEW PLF25	25 W	LED Power	Fully Isolated Plastic Case with IP67 Level	P43
NEW PLF30	30 W	LED Power	Fully Isolated Plastic Case with IP67 Level	P44
NEW PLF60	60 W	LED Power	Fully Isolated Plastic Case with IP67 Level	P45
SB03	3 W	DC-DC	Module	P56 - P57
SB05	5 W	DC-DC	Module	P56 - P57
SB08	8 W	DC-DC	Module	P56 - P57
SB1R5	1.5 W	DC-DC	Module	P55
SF30	30 W	DC-DC	Module	P69
SH05	5 W	DC-DC	Module	P58 - P59
SH08	8 W	DC-DC	Module	P58 - P59
SH10	10 W	DC-DC	Module	P58 - P59
SK30	30 W	DC-DC	Module	P70
SK40	40 W	DC-DC	Module	P71
SR78/1000	1 A	DC-DC	SIP-Package Fits Existing TO-220 Footprint	P54
ST10	10 W	DC-DC	Module	P66 - P67
ST15	15 W	DC-DC	Module	P66 - P67
ST20	20 W	DC-DC	Module	P66 - P67
ST30	30 W	DC-DC	Module	P68
SU20	20 W	DC-DC	Module	P72 - P73
SU40	40 W	DC-DC	Module	P72 - P73
SW15	15 W	DC-DC	Module	P64
SW20	20 W	DC-DC	Module	P65
ZA05	5 W	DC-DC	Module	P60
ZB15	15 W	DC-DC	Module	P62
NEW ZC05	5 W	DC-DC	Module	P61
NEW ZQF30	30 W	LED Power	Open Frame	P46
NEW ZQF30(R)	30 W	LED Power	Open Frame	P47
NEW ZQF60	60 W	LED Power	Open Frame	P48
NEW ZQF60(R)	60 W	LED Power	Open Frame	P49