

Features

1. Wide voltage input (90-264VAC)
2. Dimension: 101.6 * 50.8 * 27mm
3. No load consumption<0.4W
4. Protection type: over load / short circuit / over-temperature / over-voltage
5. Natural air cooling, 150W; 10CFM forced air cooling, 200W
6. 3KV isolation voltage
7. Built-in EMI filter: CLASS B
8. Active PFC function
9. Built-in 12V/0.4A fan auxiliary power supply
10. 3 years warranty



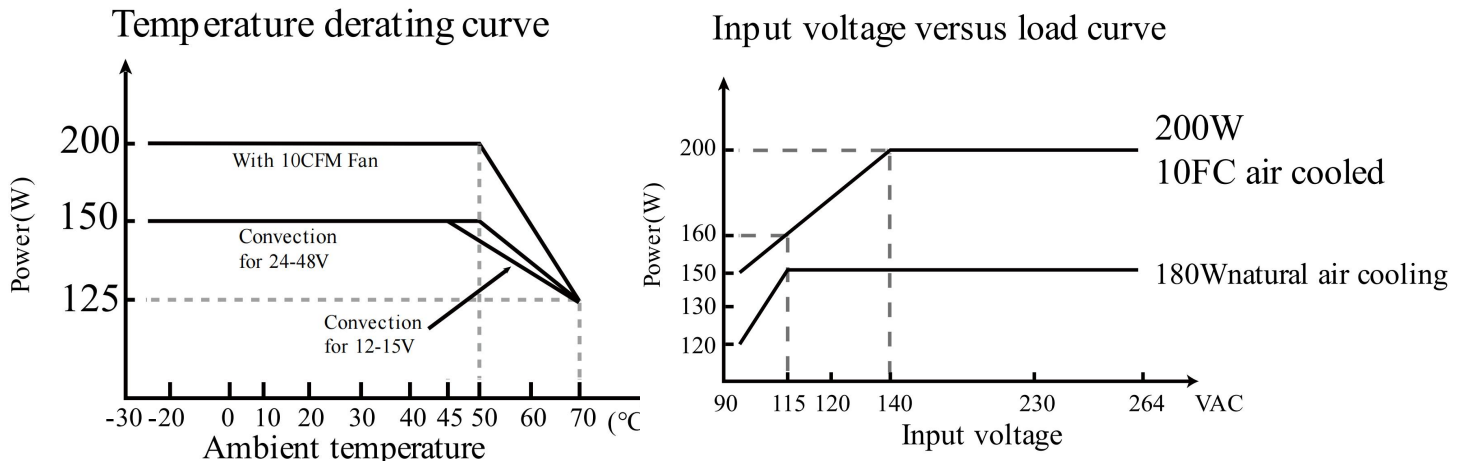
3 years
Warranty

Model	Rated Voltage (V)	Output Wattage (W)	Output Voltage (V)	Voltage Adj.Range (V)	Output Current (A)	Ripple & Noise (mVp-p)	Efficiency (%)	Capacitive load Max (uF)
ADF-200-12	90-264	200	12	11.4-12.6	16.66	<120	93	1500
ADF-200-15		200	15	14.3-15.8	13.33	<120	93	1200
ADF-200-24		200	24	22.8-25.2	8.33	<240	94	4000
ADF-200-27		200	27	26.5-27.8	7.4	<240	94	4000
ADF-200-36		200	36	33.8-38.2	5.55	<240	94	220
ADF-200-48		200	48	44-50.1	4.16	<240	94	220
ADF-200-54		200	54	52-58	3.70	<240	94	220

OUTPUT	VOLTAGE TOLERANCE		±1.0%					
	LINE REGULATION		±1.0%					
	LOAD REGULATION		±1.0%					
	SET UP, RISE TIME (Typ.)		1000ms, 30ms/230VAC; 1200ms, 40ms/115VAC at full load					
	HOLD UP TIME (Typ.)		12ms/230VAC 10ms/115VAC at full load					
INPUT	RATED VOLTAGE		100-240VAC,2.6A,50/60Hz					
	VOLTAGE RANGE		90-264VAC (<140VAC, Refer to Derating Curve)					
	POWER FACTOR		PF>0.95/230VAC PF>0.98/115VAC at full load					
	INPUT CURRENT(Typ.)		2.6A/115VAC 1.4A/230VAC					
	INRUSH CURRENT (Typ.)		cold start 30A/115VAC 60A/230VAC					
	LEAKAGE CURRENT (Typ.)		<0.75mA/230VAC/60Hz					
PROTECTION	OVER LOAD	110 - 140% load, self-recovery after troubleshooting						
	SHORT CIRCUIT	Protection mode: Hiccup mode, load abnormal condition removed, self-recovery after troubleshooting						
	OVER-TEMPERATURE	Protection mode: Output is off, the product can return to normal operation after cooling, and the temperature protection range is 110-130 °C						
	OVER VOLTAGE	Protection mode: shutdown output, self-recovery after troubleshooting						
		MODEL	12VDC	15VDC	24VDC	27VDC	48VDC	54VDC
		OVP POINT	13.2-15.6V	16.5-19.5V	26.4-31.2V	29.7-35V	52.8-62.4V	59.4 ~ 67.5V
FUNCTION	FAN SUPPLY		12V@0.4A FAN SUPPLY					
ENVIRONMENT	WORKING TEMP.		-40°C to +70°C Refer to "Derating Curve"					
	WORKING HUMIDITY		10 - 85% RH					
	STORAGE TEMP., HUMIDITY		-40°C to +85°C					
	TEMP. COEFFICIENT		0.03%/ (0-50°C)					
	VIBRATION		10-500Hz,2G10min./1cycle, 60min.each along X, Y, Z axes					
SAFETY & EMC (NOTE 3.)	SAFETY STANDARDS		Meet UL62368-1, EN/EN62368-1, IEC62368-1					
	WITHSTAND VOLTAGE		I/P-O/P: 3KVAC I/P-FG(CASE): 2.5KVAC O/P-FG(CASE): 0.5KVAC					
	ISOLATION RESISTANCE		I/P-O/P,I/P-FG,O/P-FG: >100M Ohms/500VDC 25°C 70% RH					

	EMC EMISSION & IMMUNITY	EN55011, EN55022 (CISPR22) CLASS B
	ESD	IEC/EN 61000-4-2 level 4 Contact $\pm 8\text{KV}$ /Air $\pm 15\text{KV}$
	RF	IEC/EN 61000-4-3 level 4 lev3
	EFT	IEC/EN 61000-4-4 level 4 4kV
	SURGE	IEC/EN 61000-4-5 level 4 2kV
OTHERS	MTBF	165K hrs min. MIL-HDBK-217F(25)
	UNIT DIMENSION	101.6*50.8*27mm (L*W*H)
	WEIGHT	150g
	PACKAGE	8/PCS 12/Carton
	EXTERNAL FAN SUPPLY	360*300*250mm
NOTE	1. All parameters NOT specially mentioned, are measured at 230VAC input, rated load and 25 °C of ambient temperature.	
	2. Ripple noises are measured at 20MHz of band width using a 12"twisted pair-wire terminated with a 0.1 uF&47 uF parallel capacitor.	
	3. The power supply is considered as an independent unit, but the final equipment still needs to re-confirm that the whole system complies with the EMC directives.	

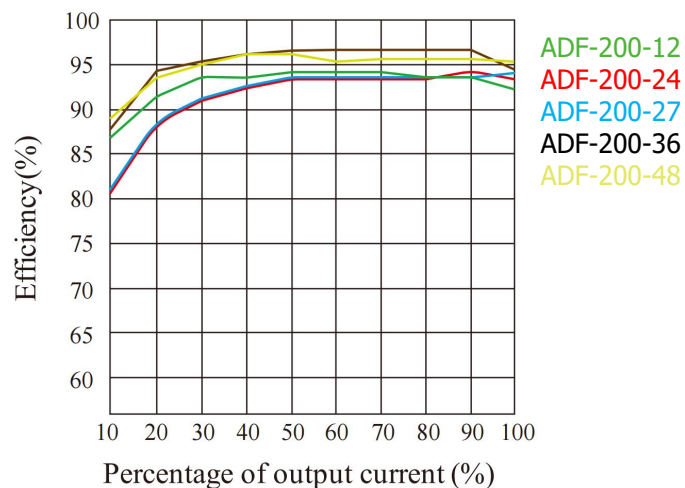
Derating Curve



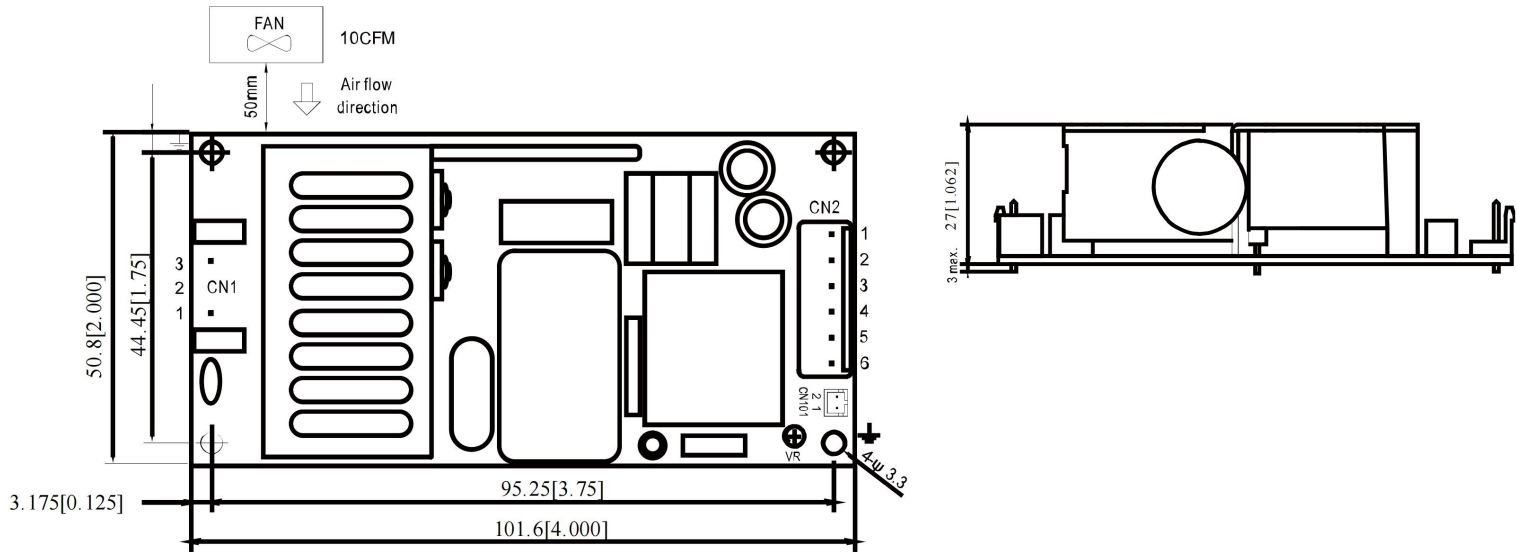
(For 90-140VAC input, the input voltage derating is required on the basis of temperature) derating

Efficiency Curve

Efficiency Vs Output Load (Vin=230VAC)



Dimensions & Function



AC Input Connector(CN1):JS TB3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	JST VHR orequivalent	JSISVH-21 TP1.1 or equivalent
2	No Pin		
3	ACN		

Grounding equied

DC Output Connector(CN2):JS TB6P-VH or equivalent

PinNo.	Assignment	Mating Housing	Terminal
1,2,3	+V	JST VHR orequivalent	JSTSVH-21 T-P1.1 orequivalent
4,5,6	-V		

FAN Connector(CN101):JS TB2B-PH-K-S or equivalent

Pin No.	Assienment	Mating Housing	Temmina
1	+12V	JSTPHR-2 or equivalent	JSTSPH-002 T-P0.5S orequivalent
2	DC COM		

Notes:

1. If the product works under the minimum required load, it cannot guarantee that the performance of the product complies with all the performance indicators in this manual;
2. The maximum capacitive load is tested under the input voltage range and full load condition;
3. Unless otherwise stated, all indexes in this manual are measured at Ta=25°C, humidity <75%RH, nominal input voltage and rated output load;
4. All index testing methods in this manual are based on the enterprise standards of the company;
5. Our company can provide product customization, specific needs can directly contact our technical staff;
- 6.AMCHARD reserves the right to make changes to the product at any time without notice.