



Features:

- Wide input range (90-264VAC)
- Size 127*76.2*38mm, 5"*3" 2.
- No-load power consumption < 0.5W 3.
- Protection type: short circuit/over temperature/over load/over voltage
- Air cooling 320W, 25CFM cooling 500W
- 3000V isolation voltage
- Built-in EMI filter: CLASS B 7.
- Suitable for CLASS I or CLASS II installations
- Built-in 12V/0.5A fan auxiliary power supply
- 10. 100% high temperature aging and testing
- 11. 3 years warranty









Selection Guide

Model	Input Voltage	Rated Power (W)	Output Voltage (V)	Voltage Adjustable Range (V)	Output Current (A)	Ripple & Noise (mVp- p)	Efficiency (%)
ADF-500-12		500	12	11.2-13.5	41.6	100	93
ADF-500-13	90-264VAC	500	13.8	13-14.5	36.2	100	93
ADF-500-15		500	15	14.3-15.8	33.3	100	93
ADF-500-24		500	24	22.8-26	20.9	120	94
ADF-500-27		500	27	26.9-29.3	18.5	120	94
ADF-500-36		500	36	33.3-37.8	13.9	150	95
ADF-500-48		500	48	46.6-52.8	10.4	150	95
ADF-500-54		500	54	51.2-57.8	9.3	150	95



AC-DC Converter

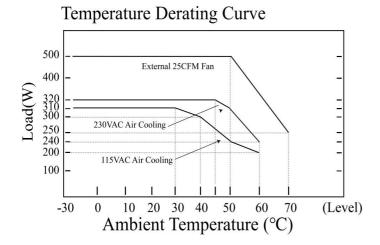
Specifications	;								
	Voltage Tolerance	±2.0%							
	Line Regulation	±1.0%	±1.0%						
	Load Regulation	±1.0%							
OUTPUT	Setup, Rise Time (Typ.)	1000ms, 50ms/230VAC 2000ms, 60ms/115VAC at full load							
	Hold Up Time (Typ.)	12ms/230VAC 12ms/115VAC at full load							
	Voltage Range	90-264VAC							
	Power Factor (Typ.)	PF>0.95/230VAC PF>0.98/115VAC at full load							
70101.77	Current (Typ.)	5.2A/115VAC 2.9A/230VAC							
INPUT	Inrush Current (Typ.)	Cold boot 30A/115VAC 60A/230VAC							
	Leakage Current (Typ.)	<0.75mA/230VAC/60Hz							
	Over Load	160%-180% load, self-recovery after troubleshooting							
	Short Circuit	Hiccup mode, self-recovery after troubleshooting							
	Over Temperature	Shut-off output, normal output can be restored after power restart							
PROTECTION		Shut-off output, normal output can be restored after power restart							
	Over Voltage	Voltage	12VDC	15VDC	24VDC	27VDC	36VDC	48VDC	54VDC
	Ore. Voltage	Range	≤15.6V	≤19.5V	≤36V	≤35.1V	≤46.8V	≤60.0V	≤63.0V
FUNCTION	Auxiliary Power Supply	12V@0.5A Auxiliary power supply for fan drive							
	Working Temp.	-30°C to +70°C (Refer to "Derating curve")							
	Working Humidity	10-85%RH							
FANGDONMENT	Storage Temp., Humidity	-40°C to +105°C							
ENVIRONMENT	Temp. Coefficient	Coefficient 0.03%/ (0-50°C)							
	Vibration	10-500Hz, 2G, 10min./1cycle, 60min.each along X, Y, Z axes							
	Safety Standards	Meet to UL62368-1, EN/EN62368-1, IEC62368-1							
	Isolation Voltage	I/P-O/P: 3000VAC I/P-FG(CASE): 1500VAC O/P-FG(CASE): 500VAC							
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: >100M Ohms/500VDC 25°C 70% RH							
	EMC Emission & Immunity	EN55011, EN55032 (CISPR32) CLASS B							
SAFETY & EMC (NOTE 3.)	ESD	IEC/EN 61000-4-2 level 4 Contact ±8kV/Air ±15kV							
, ,	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 line to line 2kV/line to ground 4kV							

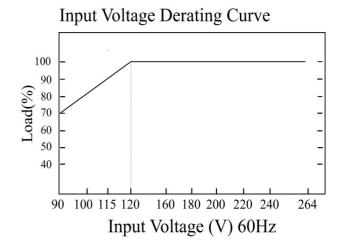




	MTBF 165K hrs min. MIL-HDBK-217F (25°C)			
	Dimension	127*76.2*38mm (L*W*H)		
OTHERS	Weight	344g		
OTTLES	Package	24 PCS/Carton		
	Carton Size	360*300*250mm		
	1. All parameters not specially mentioned, are measured when TA=25°C, humidity<75%, input nominal voltage and output rated load.			
NOTE	2. Measurement method of ripple & noise: Parallel line test method shall be adopted. Meanwhile, 0.1uF high-frequency ceramic capacitor and one 47uF electrolytic capacitor shall be connected in parallel at the terminal for measurement under 20Mhz bandwidth.			
	The power supply is regarded as a component in the system, and electromagnetic compatibility shall be confirmed in combination with the terminal equipment.			

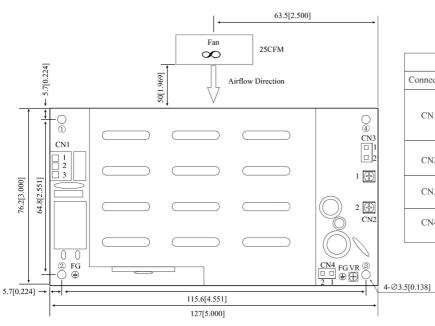
Typical Characteristics Curve



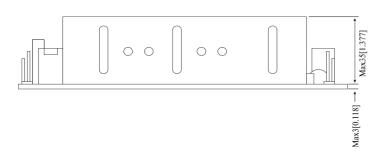




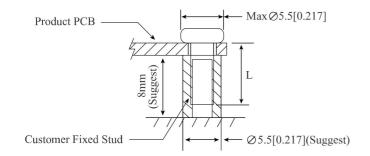




	Pin Method					
Connector	Pin	Function	Customer Connection End			
	1	AC(L)	Connector: JST VHR			
CN1	2	No Pin	Connector Terminals: JST SVH-21T-P1.1			
	3	AC(N)	Or Equivalent Products			
G) Va	1	+Vo				
CN2	2	-Vo	Wire			
CN3	1	+12V	Connector: TKP DH2-4P Or HRSDF11-4DS-2C Or Equivalent			
CNS	2	COM	Terminal: TKP DHT Or HRSDF11-22SC Or Equivalent			
CN4	1	RS-	Connector: TKP DH2-4P Or HRSDF11-4DS-2C Or Equivalent			
	2	RS+	Terminal: TKP DHT Or HRSDF11-22SC Or Equivalent			



I	nstallation location	Screw Specifications	L (Suggest)	Torque (max)
	1-4	M3	6mm	0.4N·m



NOTE:

- 1. Unit size: mm[inch] Unmarked tolerances: ±0.5mm
- 2. CLASS I system: Mounting holes marked with \ddots must be connected to safety earth
- 3. CLASS II system: Unnecessary to connect with safety earth

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.

DONGGUAN AMCHARD-POWER TECHNOLOGY CO., LTD.