

### Features:

1. Wide input range (90-305VAC, 100-430VDC)
2. Size 76.2\*50.8\*27mm, 3"\*2"
3. No load power consumption<0.3W
4. Protection type: short circuit/over load/over voltage
5. Operating temperature range -40°C to +70°C
6. 4000V isolation voltage
7. 100% high temperature aging and testing
8. 3 years warranty



3 years  
Warranty

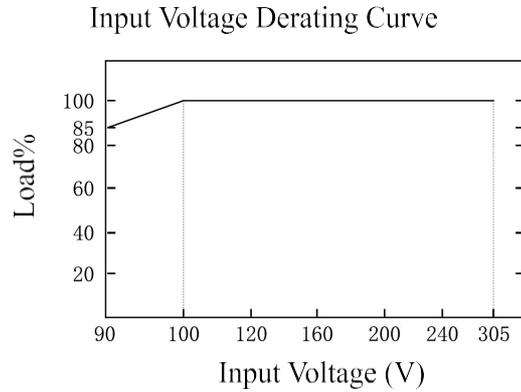
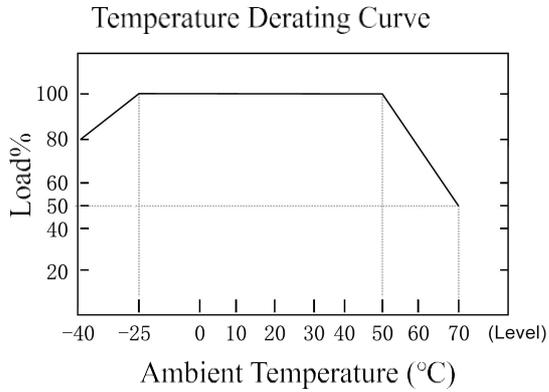
### Selection Guide

Model	Input Voltage	Rated Power (W)	Output Voltage (V)	Voltage Adjustable Range (V)	Output Current (A)	Ripple & Noise (mVp-p)	Efficiency (%)
ADS-65-05MU	90-305VAC 100-430VDC	60	5	4.5-5.5	12	75	84
ADS-65-12MU		65	12	11.8-13.3	5.42	75	88
ADS-65-15MU		65	15	13.7-16.3	4.34	75	88
ADS-65-24MU		65	24	22.9-25.8	2.71	80	88
ADS-65-36MU		65	36	32.4-39.6	1.81	100	90
ADS-65-48MU		65	48	45-53.2	1.35	100	90

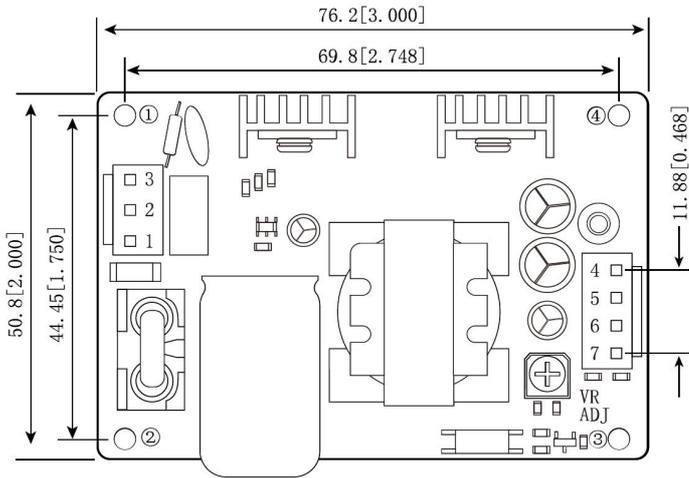
### Specifications

OUTPUT	Voltage Tolerance	±1.0%						
	Line Regulation	±1.0%						
	Load Regulation	±1.0%						
	Setup, Rise Time (Typ.)	2000, 50ms/230VAC at full load						
	Hold Up Time (Typ.)	16ms/230VAC at full load						
INPUT	Voltage Range	90-305VAC 100-430VDC						
	Nominal Voltage	100-277VAC						
	Current (Typ.)	1.2A MAX/115VAC 0.6A MAX/230VAC						
	Inrush Current (Typ.)	Cold boot 40A/115VAC 60A/230VAC at full load						
	Leakage Current (Typ.)	≤100μA/240VAC						
PROTECTION	Over Load	≥110% load, self-recovery after troubleshooting						
	Short Circuit	Hiccup mode, self-recovery after troubleshooting						
	Over Voltage	Output off						
		Voltage	5VDC	12VDC	15VDC	24VDC	36VDC	48VDC
Range	≤7.5V	≤16V	≤20V	≤30V	≤48V	≤60V		
ENVIRONMENT	Working Temp.	-40°C to +70°C (Refer to "Derating curve")						
	Working Humidity	10-85%RH						
	Storage Temp., Humidity	-40°C to +105°C						
	Temp. Coefficient	0.03%/ (0-50°C)						
	Vibration	10-500Hz, 2G, 10min./1cycle, 60min.each along X, Y, Z axes						
SAFETY & EMC (NOTE 3.)	Safety Standards	IEC60601-1, EN60601-1, UL62368-1, EN/EN62368-1, IEC62368-1						
	Isolation Voltage	I/P-O/P: 4.0kVAC						
	Isolation Resistance	I/P-O/P: >100M Ohms/500VDC 25°C 70% RH						
	EMC Emission & Immunity	EN55011, EN55032 (CISPR32) CLASS B						
	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 2kV						
OTHERS	MTBF	165K hrs min. MIL-HDBK-217F (25°C)						
	Dimension	76.2*50.8*27mm (L*W*H)						
	Weight	99g						
	Package	9 PCS/Box 16 Box/Carton						
	Carton Size	360*300*250mm						
NOTE	1. All parameters not specially mentioned, are measured when TA=25°C, humidity<75%, input nominal voltage and output rated load.							
	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.							
	3. The power supply is regarded as a component in the system, and electromagnetic compatibility shall be confirmed in combination with the terminal equipment.							

### Derating Curve

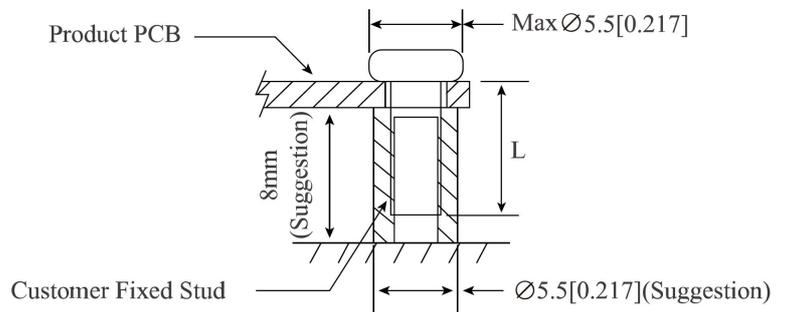
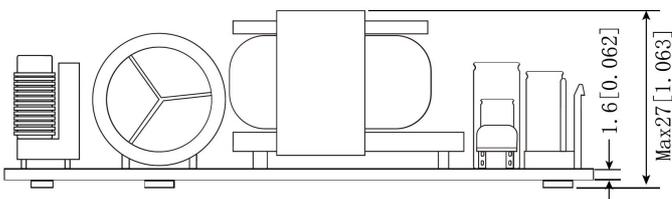


### Mechanical Specification



Pin Method			
Connector	Pin	Function	Customer Connection End
CN1	1	AC(N)	Connector: JST VHR Connector Terminals: JST SVH-21T-P1.1 Or Equivalent Products
	2	No Pin	
	3	AC(L)	
CN2	4/5	+Vo	Connector: JST VHR Connector Terminals: JST SVH-21T-P1.1 Or Equivalent Products
	6/7	-Vo	

Installation location	Screw Specifications	L(Suggestion)	Torque (max)
①-④	M3	6mm	0.4N·m



NOTE:

- Unit size: mm[inch] Unmarked tolerances:  $\pm 0.5$ mm
- CLASS I system: Mounting holes marked with  $\perp$  must be connected to safety earth
- 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  $T_a=25^{\circ}\text{C}$ , 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.