Features:

1. Wide input range (90-264VAC, 100-370VDC)
2. Size 70*90*54.5mm
3. No-load power consumption<0.4W
4. Protection type: short circuit/ over temperature/ over load/ over voltage
5. Operating temperature range -40℃ to +70℃
6. 3000V isolation voltage
7. DIN rail TS-35/7.5 or 15 mountable
8. 100% high temperature aging and testing
9. 3 years warranty

RoHS CE 3 years Warranty

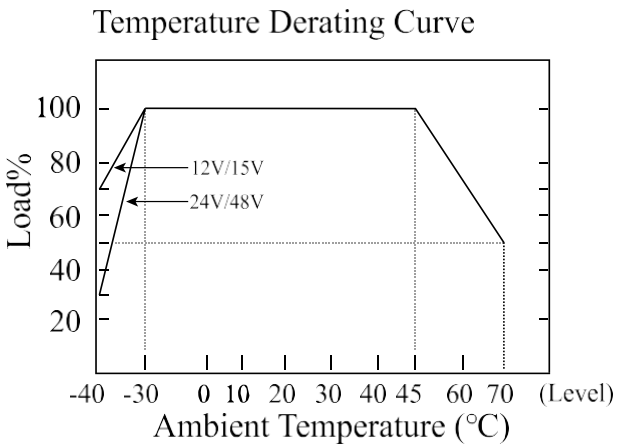
Selection Guide

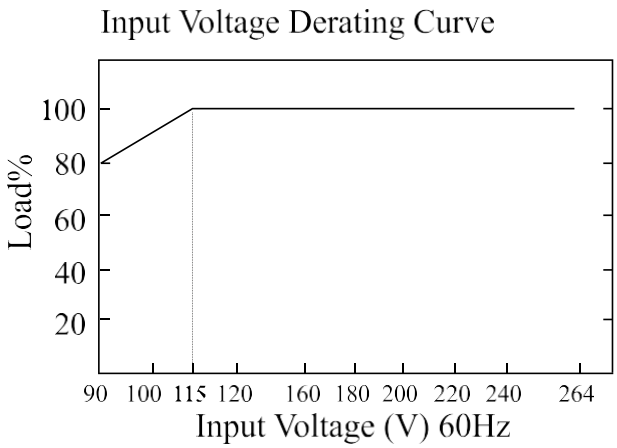
Model	Input Voltage	Rated Power (W)	Output Voltage (V)	Voltage Adjustable Range (V)	Output Current (A)	Ripple & Noise (mVp-p)	Efficiency (%)
DP-100-12	90-264VAC 100-370VDC	86	12	11.5-12.8	7.16	100	87
DP-100-15		92	15	14.3-15.8	6.13	120	87
DP-100-24		92	24	23.2-26.8	3.83	150	88
DP-100-48		92	48	47-55	1.91	150	89

Specifications

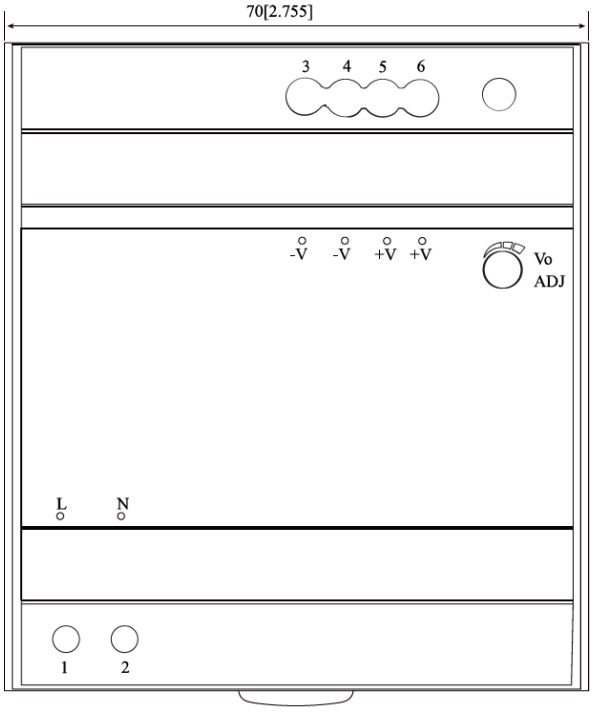
OUTPUT	Voltage Tolerance	±2.0%				
	Line Regulation	±1.0%				
	Load Regulation	±1.0%				
	Setup, Rise Time (Typ.)	1200ms, 30ms/230VAC 2500ms, 50ms/115VAC at full load				
	Hold Up Time (Typ.)	80ms/230VAC 30ms/115VAC at full load				
INPUT	Voltage Range	90-264VAC 100-370VDC				
	Frequency	47-63Hz				
	Current (Typ.)	2.0A/115VAC 1.2A/230VAC				
	Inrush Current (Typ.)	Cold boot 45A/115VAC 70A/230VAC				
	Leakage Current (Typ.)	<1mA/230VAC/50Hz				
PROTECTION	Over Load	≥110% load, self-recovery after troubleshooting				
	Short Circuit	Hiccup mode, self-recovery after troubleshooting				
	Over Temperature	Output off, the product can return to normal operation after cooling				
	Over Voltage	Output off, normal output can be recovered after the fault is removed				
		Voltage	12VDC	15VDC	24VDC	48VDC
		Range	≤20V	≤25V	≤35V	≤64.8V
ENVIRONMENT	Working Temp.	-40°C to +70°C (Refer to "Derating curve")				
	Working Humidity	85%RH max				
	Storage Temp., Humidity	-40°C to +85°C, 10-95%RH				
	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	UL1012				
	Isolation Voltage	I/P-O/P: 3000VAC				
	Isolation Resistance	I/P-O/P: >100M Ohms/500VDC 25°C 70% RH				
	EMC Emission & Immunity	EN55011, EN55032 (CISPR32) (Note 4.)				
	ESD	IEC/EN 61000-4-2 level 2 Contact ±4kV/Air ±4kV				
	RF	IEC/EN 61000-4-3 level 4				
	EFT	IEC/EN 61000-4-4 level 4 4kV				
	Surge	IEC/EN 61000-4-5 level 4 2kV				
OTHERS	MTBF	200K hrs min. MIL-HDBK-217F (25°C)				
	Dimension	70*90*54.5mm (W*H*D)				
	Weight	230g				
	Package	45pcs/carton				
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.					
	4. EMC test is conducted under the hot engine state after the product works for 10 minutes.					

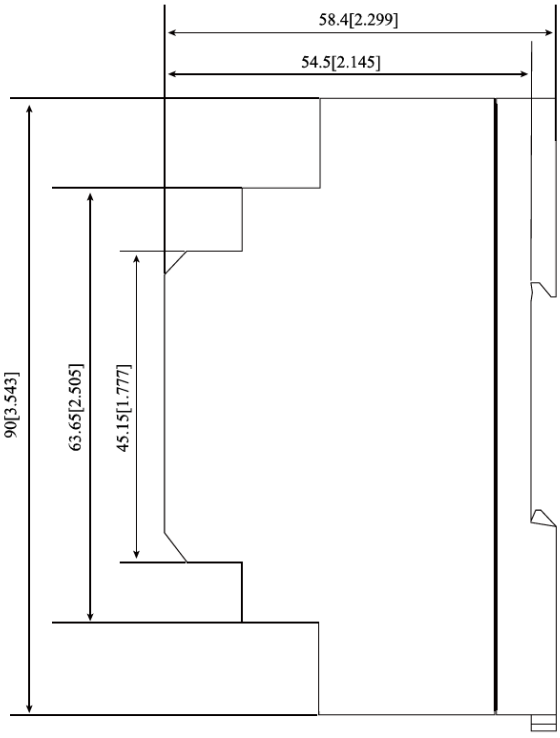
Derating Curve

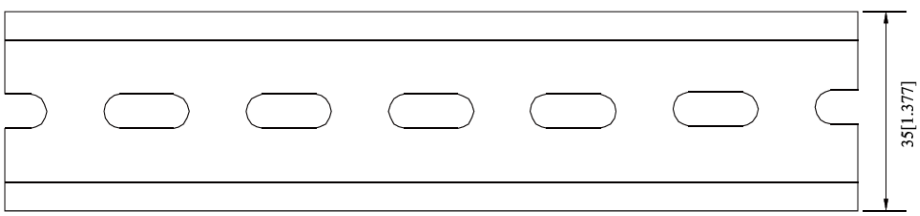




Dimensions & Function





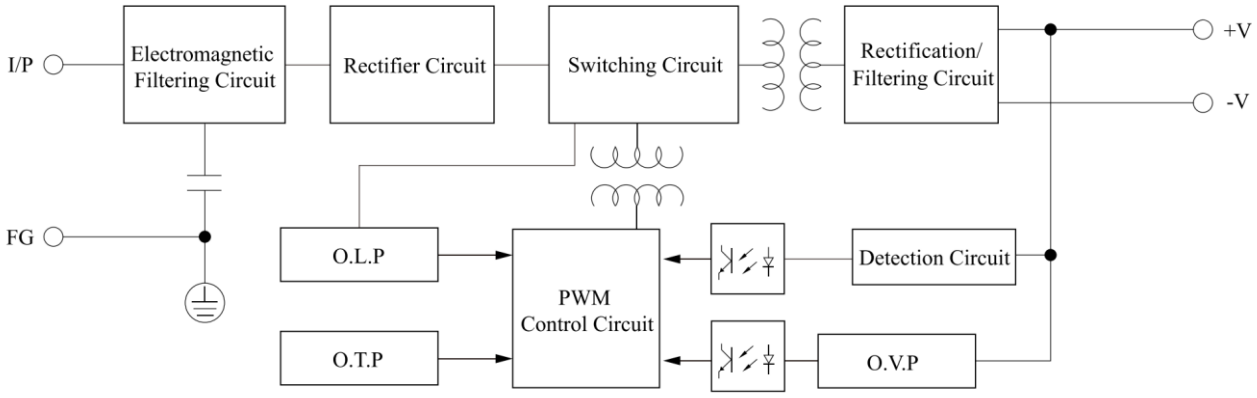


Pin	Function
1	AC(L)
2	AC(N)
3-4	-V
5-6	+V

ADMISSIBLEDIN-RAIL: TS35/7.5 OR TS35/15

NOTE: Unit size: mm[inch] Unmarked tolerances: ±0.5mm

Product Schematic



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℃, 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.