

### Features:

1. Wide input range (90-264VAC, 100-370VDC)
2. Size 52.5\*90\*54.5mm
3. No-load power consumption<0.75W
4. Protection type: short circuit/ over temperature/ over load/ over voltage
5. Operating temperature range -40°C to +70°C
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



3 years  
Warranty

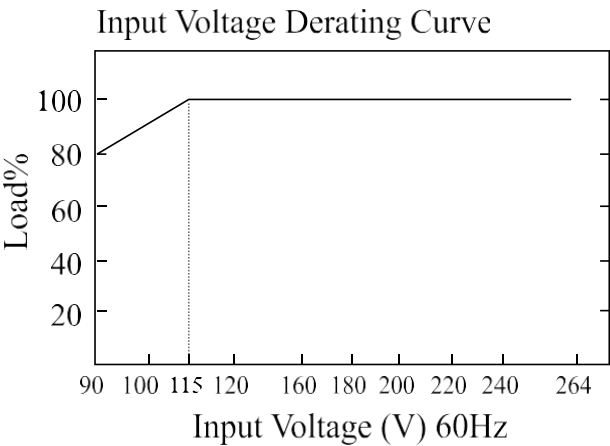
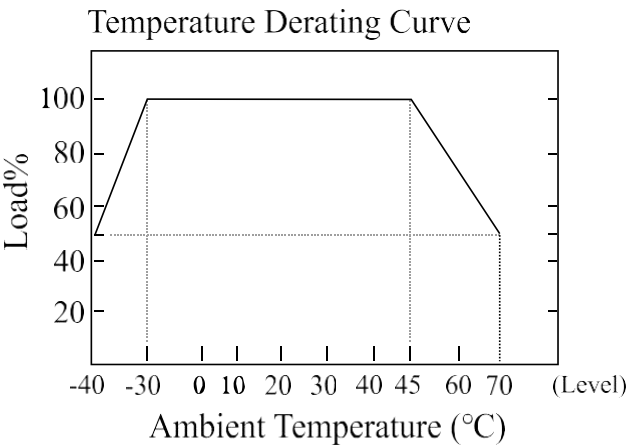
### Selection Guide

Model	Input Voltage	Rated Power (W)	Output Voltage (V)	Voltage Adjustable Range (V)	Output Current (A)	Ripple & Noise (mVp-p)	Efficiency (%)
DP-60-05	90-264VAC 100-370VDC	32.5	5	4.75-5.25	6.5	100	78
DP-60-12		54	12	11.3-12.6	4.5	120	88
DP-60-24		60	24	22.5-25.6	2.5	120	89
DP-60-48		60	48	44.8-53.4	1.25	240	90

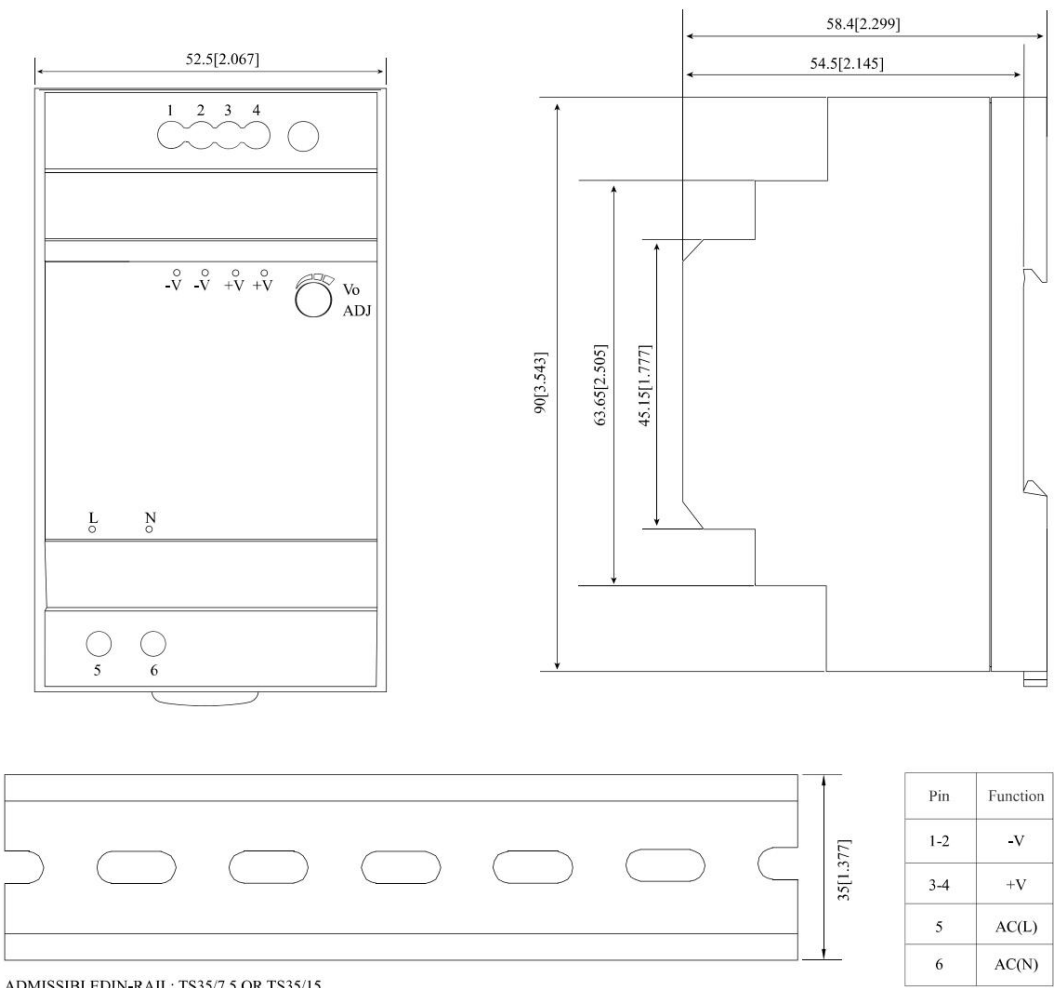
## Specifications

OUTPUT	Voltage Tolerance	±2.0%				
	Line Regulation	±1.0%				
	Load Regulation	±1.0%				
	Setup, Rise Time (Typ.)	1200ms, 30ms/230VAC 3000ms, 50ms/115VAC at full load				
	Hold Up Time (Typ.)	50ms/230VAC 15ms/115VAC at full load				
INPUT	Voltage Range	90-264VAC 100-370VDC				
	Frequency	47-63Hz				
	Current (Typ.)	1.1A/115VAC 0.7A/230VAC				
	Inrush Current (Typ.)	Cold boot 30A/115VAC 60A/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	Reduced power output or no output				
	Over Voltage	Output voltage off or clamp				
		Voltage	5VDC	12VDC	24VDC	48VDC
		Range	≤7.2V	≤16.2V	≤36V	≤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)				
	ESD	IEC/EN 61000-4-2 level 3 Contact ±4kV/Air ±8kV				
	RF	IEC/EN 61000-4-3 level 4				
	EFT	IEC/EN 61000-4-4 level 3 2kV				
	Surge	IEC/EN 61000-4-5 level 4 2kV				
OTHERS	MTBF	200K hrs min. MIL-HDBK-217F (25°C)				
	Dimension	90*52.5*52.5mm (W*H*D)				
	Weight	150g				
	Package	54pcs/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.					

Derating Curve

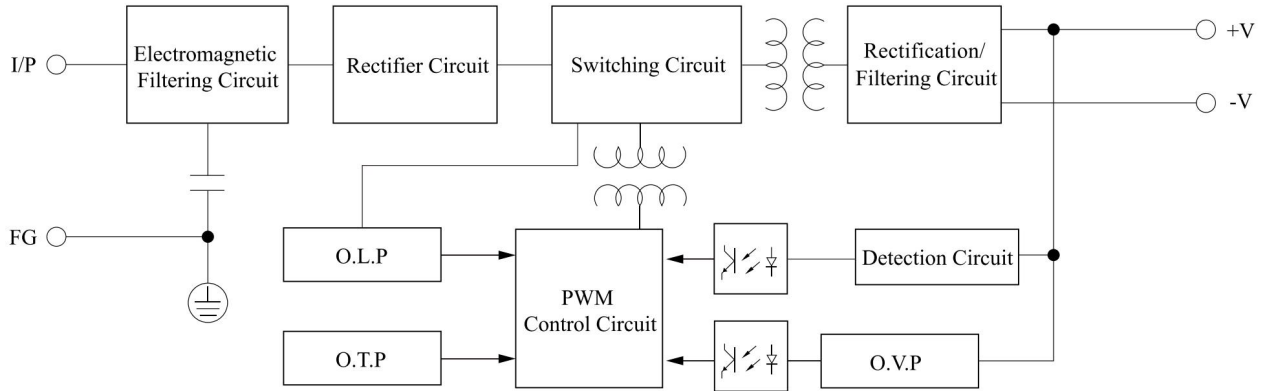


Dimensions & Function



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  $T_a=25^{\circ}\text{C}$ , humidity  $<75\%\text{RH}$ , 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.