

Features:

- Universal AC input (85-264VAC)
- Protections: SCP, OVP, OLP
- Ultra slim case design with 17.5mm width
- DC OK indicator LED
- Comply with UL 508 (Industrial Control Equipment)
- High efficiency up to 87.5%, and low power dissipation
- 3 Years Warranty

Single Phase

Patron

Passive Elektronik

Din Rail Power Supply

PDP 15W Series

Description

PDP-15 is one ultra slim 15W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 17.5mm(1SU) in width, which allows space saving inside the cabinets. The PDP series adopts the full range AC input from 85VAC to 264VAC and conforms to BS EN/EN61000-3-2, the norm the European Union regulates for harmonic current.

PDP-15 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 87.5%, the entire series can operate at The ambient temperature between -30°C and 70°C under air convection. They come with a full 3-years warranty.

Ordering Guide

Model No.	Input Voltage Range	Efficiency typ@230V	Output Watt	Output Voltage	Output Current
PDP-15-12	85-264V AC 47-63Hz	85%	15W Max.	DC12V	0-1.25A
PDP-15-24		86.5%		DC24V	0-0.63A
PDP-15-48		87.5%		DC48V	0-0.32A

Specifications (measured @ Ta= 25°C, rated Vin, rated load and after warm up)

Parameter	Condition	Min.	Typ.	Max.
Input Voltage Range		85VAC		264VAC
Input Frequency Range		47Hz		63Hz
Input Current	115VAC, full load 230VAC, full load			0.5A 0.25A
Inrush Current	115VAC, cold start 230VAC, cold start		25A 45A	
Leakage Current	230VAC		<1.0mA	
No Load Power Consumption	115VAC 230VAC		0.3W 0.6W	
Output Voltage ADJ. Range	12V 24V 48V	12 24 48	12 24 48	14 28 55
Ripple and Noise	12V 24V 48V			100mVp-p 120mVp-p 240mVp-p
Voltage Tolerance	12V/24V/48V		±1.0%	
Line Regulation	12V/24V/48V		±1.0%	
Load Regulation	12V/24V/48V		±1.0%	

Note1: Measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF & 10µF parallel capacitor.



CB

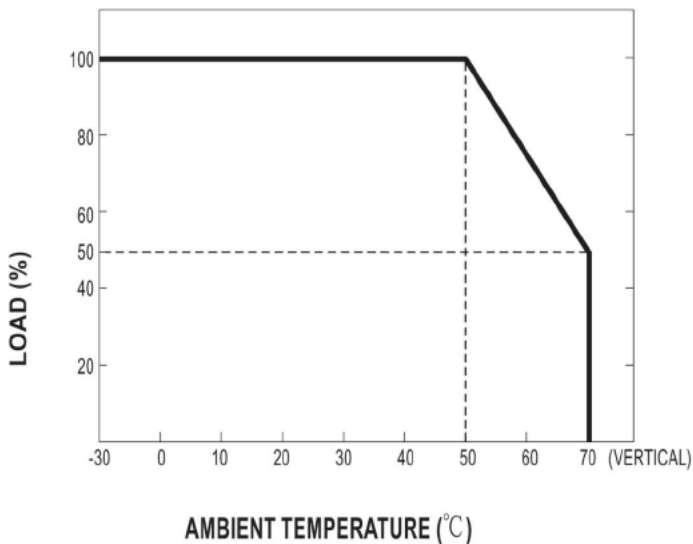


EAC

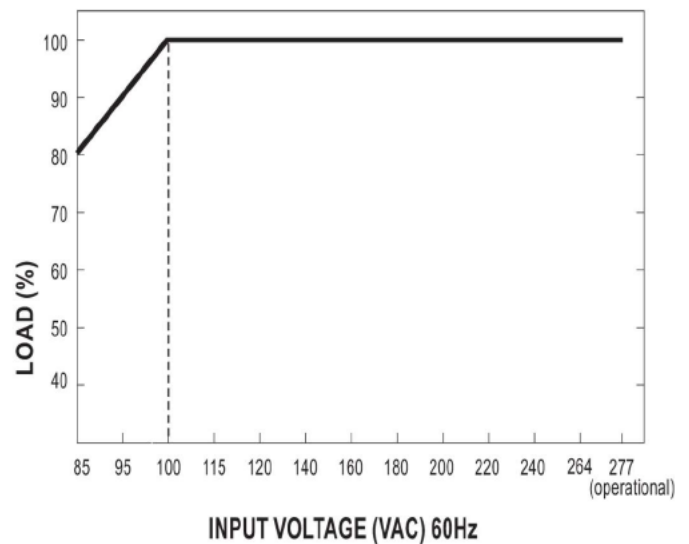
Specifications (measured @ Ta= 25°C, rated Vin, rated load and after warm up)

	Parameter	Condition	Value.
PROTECTION	Short Circuit Protection (SCP)		hiccup mode (current limit)
	Over Voltage Protection (OVP)	12V	15-18VDC, hiccup mode
		24V	29-33VDC, hiccup mode
	48V	58-65VDC, hiccup mode	
	Over Load Protection (OLP)		Constant power (110%-145% current limit)
ENVIRONMENT	IP Rating		IP20
	Pollution Degree (PD)		PD2
	Working Temp.; Humidity		-30°C~70°C; 20-90%RH Non-condensing
	Storage Temp; Humidity		-40°C~85°C; 10-95%RH
SAFETY & EMC	SAFETY STANDARDS		Meet UL508, UL60950-1,EN61000-6-2
	WITHSTAND VOLTAGE		I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
	ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH
	EMC EMISSION		Compliance to EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2,-3
	EMC IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A,SEMI F47

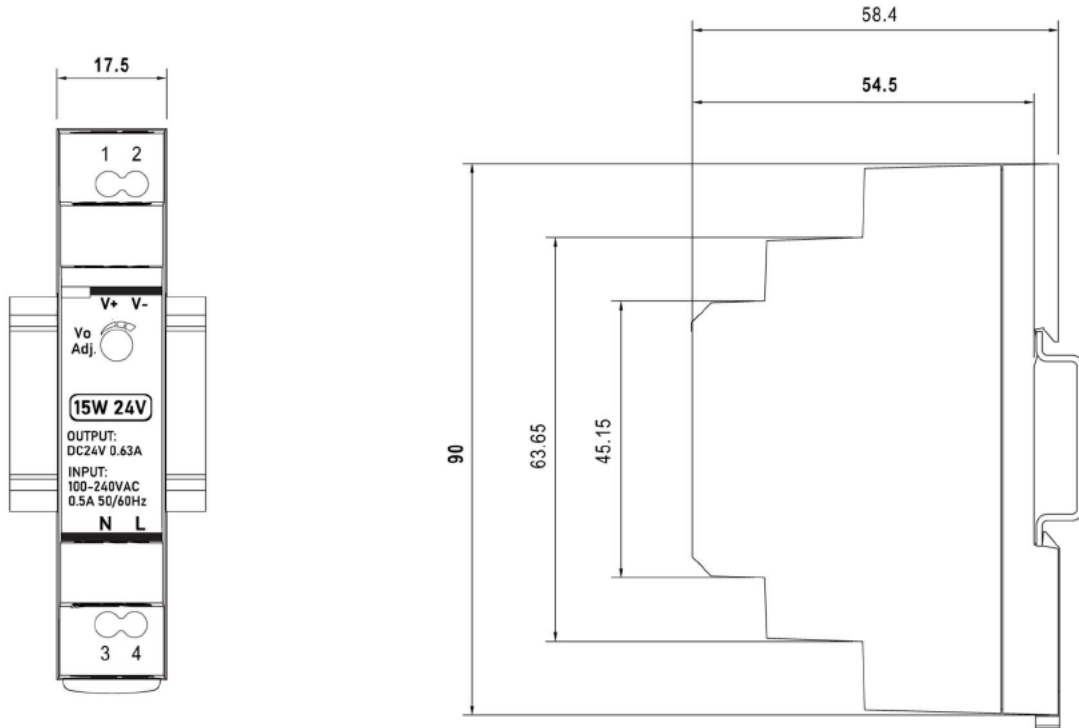
Derating Curve



Output Derating VS Input



DIMENSION (mm)



Note: Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power, In case the adjacent device is heat source, 15mm clearance is recommended.

PACKAGKING INFORMATION

Parameter	Type	Pieces	Weight(Kgs)	Note
Unit Packaging	Carton box	1	0.08	
Master Packaging	Carton box	160	13.0	