Features:

- Universal AC input (85-264VAC)
- High Power Factor PF≥0.92
- Protections: SCP, OVP, OLP,OTP
- DC OK indicator LED
- Build-in DC OK relay contact
- 125% (450W) peak load capacity
- Comply with UL 508 (Industrial Control Equipment)
- EN61000-6-2(EN50082-2) industrial immunity level
- High efficiency up to 93%, and low power dissipation

Patron

Passive Elektronic

Din Rail Power Supply

PDP 360W Series

Description

These DIN-rail mounted power supplies have a robust case, 4mm screw terminal connectors and use high reliability components to give a long, trouble-free life. The SDP360 can be end mounted to save rail space or side mounted for use in low-profile cabinets. The units can deliver up to 125% start-up power and allow n+1 parallel operation to increase the continuous output current or for supply redundancy. DC OK monitoring. The PDP360 series is designed for demanding commercial and industrial applications with UL508, UL61000-6-2 report and CE (LVD + EMC + RoHS) certifications. 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-360-12	85～264V AC 47-63Hz	90%	360W Max.	DC12V	0-30.0A
PDP-360-24		92%		DC24V	0-13.0A
PDP-360-48		93%		DC48V	0-7.5A

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

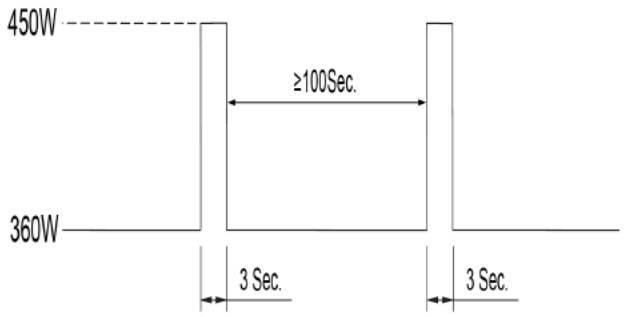
Parameter	Condition	Min.	Typ.	Max.
Input Voltage Range		85VAC		264VAC
Input Frequency Range		47Hz		63Hz
Input Current	115VAC, full load 230VAC, full load			3.5A 1.75A
Inrush Current	115VAC, cold start 230VAC, cold start		40A 60A	
Leakage Current	230VAC		<1.0mA	
No Load Power Consumption	115VAC 230VAC		0.5W 1.0W	
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		±0.5%	
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.

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

	Parameter	Condition	Value.
PEAK OUTPUT	Peak Current(3 Sec.)	12V 24V 48V	37.5A 18.75A 9.38A
	Peak Watts(3 Sec.)	12V/24V/48V	300W
PROTECTION	Over Voltage Protection (OVP)	12V 24V 48V	15-18VDC, hiccup mode 29-33VDC, hiccup mode 58-65VDC, hiccup mode
	Over Load Protection (OLP)		Constant power (current limit)
	Over Temperature Protection (OTP)		100±5°C detect on Heat-sink of power transistor; shut down O/P, auto recovery after temperature goes down
ENVIRONMENT	IP Rating		IP20
	Pollution Degree (PD)		PD2
	Working Temp.; Humidity		-25℃～70℃; 20-95%RH Non-condensing
	Storage Temp; Humidity		-40℃～85℃; 10-95%RH
SAFETY & EMC	SAFETY STANDARDS		Meet UI508, EN61000-6-2
	WITHSTAND VOLTAGE		I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK: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 EN55011, 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

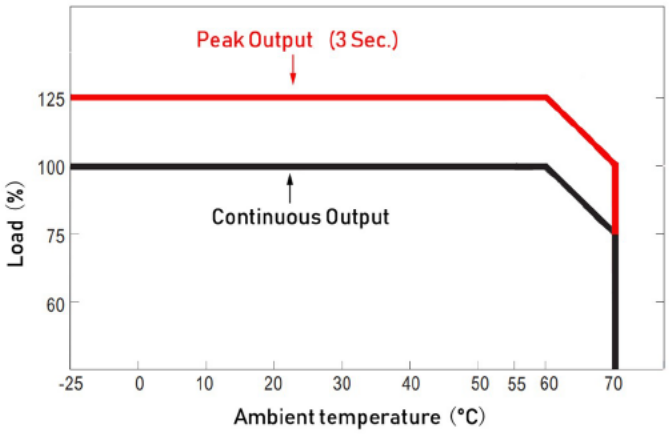
Overload Capability



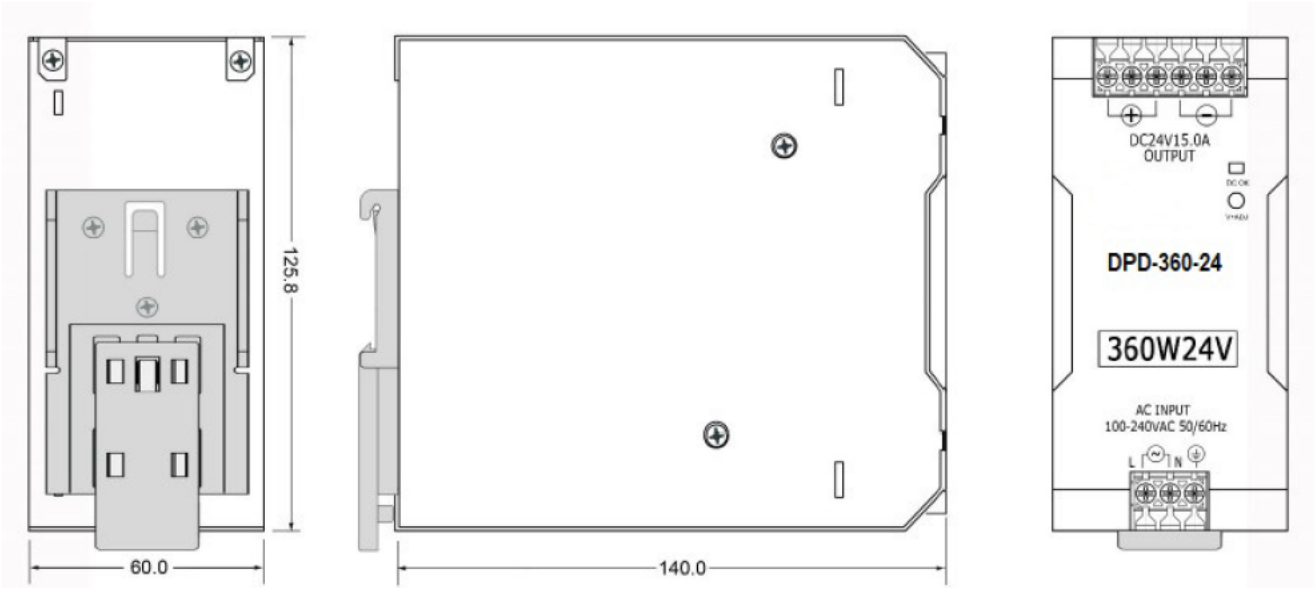
Note:

1. Peak power 450W output can be maintained for up to 3 seconds;
2. The interval between two peak outputs shall not be less than 100 seconds.

Derating Curve



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.