

PDR-120

DIN Rail

Made in Germany

120 Watts Power Supply -20...+70°C
115/230Vac Input Voltage

Short Specification:

- Metal housing
- Up to 91% efficiency
- -20°C...+60°C full output power
- Free air convection
- Galvanic insulated
- Continuous short circuit protected
- Overload & low voltage protected
- Soft start & auto-recovery
- Hold up time >30ms
- Minimum load = 0A
- Switching frequency typ. 100KHz
- EMI/EMS EN61000-6-2,3, EN55022 class B
- PFC: EN61000-3-2 class A
- cUL60950/16950 IEC(EN)60950-1
- Series & parallel operation
- DIN Rail 35mm
- Screw terminals AWG26...AWG12
- 24 hours burn in test
- High reliability, shock & vibration resistant

Smart start-up with critical loads:

- motor drives
- capacitive loads
- DC-DC-converters



Single-Output: 12,15,24,36,48,60V

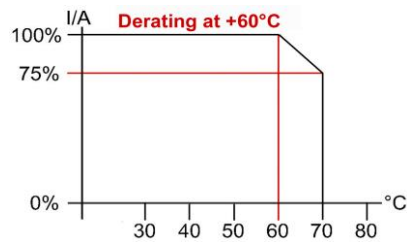


In accordance with IEC60950-1

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(Subject to alterations. This product is not designed to be used in applications such as life support systems wherein a failure or malfunction could result in injury or death)

AC Input	85..132Vac / 184..265Vac , 47...63Hz , 110...375Vdc					
AC Input Rating	115Vac <2.2A 230Vac <1.1A					
Rated DC Voltage	12V	15V	24V	36V	48V	60V
Rated DC Current	10.0A	8.0A	5.0A	3.3A	2.5A	2.0A
Ripple [mVpp] ^{230Vac}	50 (20MHz)	50 (20MHz)	65 (20MHz)	65 (20MHz)	100 (20MHz)	120 (20MHz)
Output adj. range	24Vdc: 22,5...28,5Vdc, others - 5% ... +10%					
Order code: PDR-120Vout+(T= DIN Rail ; W= wall mount) Example: 24V for DIN-Rail = PDR-120-24T						

Tolerance	± 1%
Load regulation	< ± 0.5% 10-100%, 100-10%
Switching Frequency	100KHz typical
Minimum Load	0 A
Efficiency	Up to 91%
Load Protection	1,2x I _{rated} ,auto recovery
Voltage Protection	145% of U _{out} , auto recovery
Short Circuit Protection	Continuous
Temperature Control	Upon request
Hold Up Time	> 30ms 230Vac
Inrush Current	< 16A (230Vac)
Softstart	50ms typical
Convection	Free air
Ambient Temperature	- 20°C...+70°C
Storage Temperature	- 40°C...+85°C
EMI	EN55022 class B / EN61000-3-2
EMS	EN61000-6-2,3
Safety	cUL60950/1950 , EN60950-1
Safety class 1(A)	VDE0805, VDE0100
Air & Surface Leakage Paths	> 8mm
Input/Output	Galvanic insulated
DC Fail Relay (galv. Insulated)	<48Vdc/500mA
MTBF rated	400000h
Dimensions (HxWxD)	124x50x96mm
Weight	510g
Connectors (AC & DC)	Terminal plug AWG26...AWG12
Options for military use available upon request	



Terminal Connects:

SK1
1 = L
2 = N
3 = GND

SK2
1 = DC +
2 = DC +
3 = DC -
4 = DC -
5 = relay
6 = relay

Screw terminal order codes: Art.No.: 3520038 (3 pins)
(each package = 10 pcs) Art.No.: 3520037 (2 pins)
for SK1 & SK2

*normally closed contact

Conception:

The PDR power supply series realizes very high power efficiency in a space-saving housing. This design enables Green Power applications and allows free air convection. Latest generation electrical devices relate to the high reliability of all PDR power supplies. The philosophy is, to employ 125°C low ESR ultra long life capacitors where expedient to achieve a superior lifetime of our products. The used screw terminal plugs allow easy to wire, smooth service and protect you from mix-up the input with the output signals.

Parallel Operation Mode:

Parallel operation of equal PDR-Power-Supplies provides you a higher output power. Make sure that the DC voltages differ at only ±1% and that DC cables are equal of equal length.

Series Operation Mode:

To raise the output voltage you can drive equal PDR power supplies in series, too.

