

PSR01801

19" 3U 10TE

Made in Germany

180 Watts 1 Out Redundant Power Supply Front End
115/230Vac Select Input, -20...+70°C

Short Specification:

- 19 Inch 3U Norm Front End Slide-in-Unit
- Built in redundancy
- Aluminium housing
- Up to 90% 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
- Minimum load = 0A
- Hold up time >40ms
- 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
- H11M DIN61612 connector
- 24 hours burn in test
- High reliability, shock & vibration resistant

Special Features:

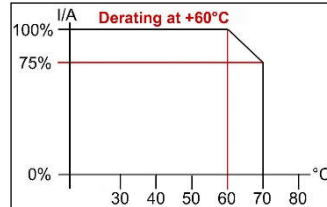
AC-Line switch available



Single Output: 24V,48V,60V

AC-Input	85...132VAC / 170...265VAC, 47...63Hz, 250...375VDC		
AC Input Rating	100...120VAC / 220...240VAC, 115VAC <3.6A / 230VAC 1.8A		
Rated DC-Voltage	24V	48V	60V
Rated DC-Load	7.5A	3.75A	3.0A
Ripple [mVpp] _{230Vac}	20 (20MHz)	50 (20MHz)	50 (20MHz)
Adjustment Range	22.8...28.8V	45.6...52.8V	57.0...66.0V
Available options	AC Line Switch (option S)		

Stability at Load Switch 1ms	< ± 1% 10-100%, 100-10% (12V)
Switcher frequency	100KHz typical
Efficiency	Up to 90%
Overload Protection	1,2x I _{rated} , auto recovery
Over Voltage Protection	145% of U _{out} , auto recovery
Short Circuit Protection	Continuous
Temperature Control	Yes
Hold Up Time	> 40ms at 230Vac and full load
Inrush Current	< 24A (230Vac)
Softstart	100ms typ.
Cooling	Free air convection
Ambient Temp.	- 20°C ...+70°C
Storage Temperature	- 40°C ...+85°C
EMI	EN55022 class B / EN61000-3-2
EMS	EN61000-6-2,3
Safety	EN60950-1, EN60204-1
Safety class 1(A)	VDE0805, VDE0100
Air & Surface Leakage Paths	> 8mm
Input/Output	Galvanic insulated
Minimum Load	0A
MTBF at full load	380000h
Dimensions (HxWxD)	3U 10FS DIN41494, D=220mm
Weight	960g
Connector	H11M DIN61612
Power Good	Relay max. 48V/500mA Pin 14+17 closed when o.k.



H11M DIN41612 connector

- 32 = PE
- 29 = L
- 26 = N
- 23 = not connected
- 20 = power good
- 17 = power good
- 14 = power good
- 11 = not connected
- 8 = not connected
- 5 = output -
- 2 = output +

Conception:

The Camtec PSR-Series provides high efficiency by using a very small space front end systems. Having the latest FET-technology leads to the most reliable system availability. The Camtec Overload Design guarantees state of the art power reserve. All electronic devices are generally fixed. The PSR can handle hard conditions of use in vehicles or in military applications.

Redundant Operation Mode

The PSR-Series is designed for redundant operation. The power supply unit has as a diode decoupling circuit. No extern circuit is required to operate equal versions of PSR-Modules in parallel. In case of failure the remaining power supply takes full load control of the supply network. No voltage drop downs will affect the system.

DC Power Good Monitoring

The power good contact section of the H11M connector allows recording the operation mode locally (good/failure).

