

# PSR01501

# 19" 3U 10TE

Made in Germany

**150 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 >50ms
- 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



*For Redundant Operation*

**Single Output: 5V,12V,15V,24V,48V,60V**



In accordance with IEC60950-1

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p.1/2 11.11B

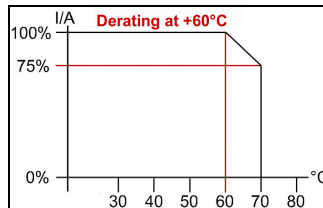
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(Subject to alterations. This product is not designed to be used in applications such as life support systems wherein a failure or malfunction could result in injury or death)

<b>AC-Input</b>	85...132VAC / 170...265VAC, 47...63Hz, 250...375VDC					
<b>AC Input Rating</b>	100...120VAC / 220...240VAC, 115VAC <3.0A / 230VAC 1.5A					
<b>Rated DC-Voltage</b>	5V	12V	15V	24V	48V	60V
<b>Rated DC-Load</b>	20.0A	12.5A	10.0A	6.5A	3.2A	2.5A
<b>Ripple [mVpp]</b> <sup>230Vac</sup>	25mV	25mV	25mV	20 (20MHz)	50 (20MHz)	50 (20MHz)
<b>Adjustment Range</b>	4,75...6.0V	11.4...14.4V	14.25...18.0V	22.8...28.8V	45.6...52.8V	57.0...66.0V

<b>Available options</b>	<b>AC Line Switch (option S)</b>
Order code: PSR01501.Voltages.switch(S) Example: 24Vdc with line switch PSR01501.24S (neutral front panel is standard)	

<b>Stability at Load Switch 1ms</b>	< ± 1% 10-100%, 100-10% (12V)
<b>Switcher frequency</b>	100KHz typical
<b>Efficiency</b>	Up to 90%
<b>Overload Protection</b>	1,2x I <sub>rated</sub> , auto recovery
<b>Over Voltage Protection</b>	145% of U <sub>out</sub> , auto recovery
<b>Short Circuit Protection</b>	Continuous
<b>Temperature Control</b>	Yes
<b>Hold Up Time</b>	> 50ms at 230Vac and full load
<b>Inrush Current</b>	< 24A (230Vac)
<b>Softstart</b>	100ms typ.
<b>Cooling</b>	Free air convection
<b>Ambient Temp.</b>	- 20°C ...+70°C
<b>Storage Temperature</b>	- 40°C ...+85°C
<b>EMI</b>	EN55022 class B / EN61000-3-2
<b>EMS</b>	EN61000-6-2,3
<b>Safety</b>	cUL60950/1950 (IEC)EN60950-1
<b>Safety class 1(A)</b>	VDE0805, VDE0100
<b>Air &amp; Surface Leakage Paths</b>	> 8mm
<b>Input/Output</b>	Galvanic insulated
<b>Minimum Load</b>	0A
<b>MTBF at full load</b>	380000h
<b>Dimensions (HxWxD)</b>	3U 10FS DIN41494, D=220mm
<b>Weight</b>	960g
<b>Connector</b>	H11M DIN61612
<b>Power Good</b>	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 = -5V sensing
- 8 = +5V sensing
- 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).

