

APW00803

Enclosed

Made in Germany

80 Watts 3 outputs Power Supply Chassis Mount
90..265Vac Input, -20...+70°C

Short Specification:

- VME compatible
- 19 Inch 3U Norm Front End Slide-in-Unit
- Aluminium housing
- 83% efficiency typ.
- -20°C...+55°C full output power
- Free air convection
- Galvanic insulated
- Continuous short circuit protected
- Overload & low voltage protected
- Soft start & auto-recovery
- Hold up time >100ms
- Minimum load = 0A
- Switching frequency typ. 70KHz
- EMI/EMS EN61000-6-2,3, EN55022 class B
- PFC EN61000-3-2 class A
- cUL60950/16950 IEC(EN)60950-1
- H15M DIN61612 connector
- 24 hours burn in test
- High reliability, shock & vibration resistant

Special features:

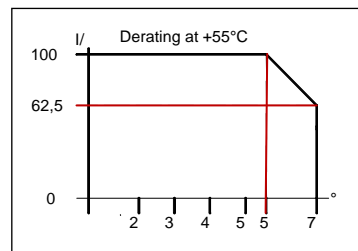
- Electronic inrush current limiter
- Electronic output current limiter
- Inrush voltage protection 8 KV



In accordance with IEC60950-1

AC-Input	90...265Vac, 47...63Hz, 110...300Vdc (with 8000V/2.5KHz overload protection)					
Input Rating	100...240Vac, 115Vac <1.5A 230Vac <0.8A					
Rated DC-Voltage	UA1 +5V	UA2 +12V	UA3 -12V	UA1 +5V	UA2 +15V	UA3 -15V
Rated DC-Current	8.0A	2.0A	2.0A	8.0A	1.0A	1.0A
Ripple [mVpp] 230Vac	20 (20MHz)	10 (20MHz)	10 (20MHz)	20 (20MHz)	10 (20MHz)	10 (20MHz)
Rated current (out)	14A (80W)			14A (80W)		
Output adj. range	U1= 4,85...5,15V			U1= 4,85...5,15V		
Order code: APW00803.Vout Example: 5/+12/-12 = APW00803.5.12.12						

Tolerance	U1 ± 1% ; U2,3 ± 3%
Stability at Load Switch	< ± 1% 10-100%, 100-10%
Switcher frequency	70KHz typ.
Maximum Load	U1+U2+U3 = 14A
Efficiency (in average over all outputs)	83% typ.
Overload Protection	1,2x I _{rated} , auto recovery
Over Voltage Protection	125% of U _{out} , auto recovery
Short Circuit Protection	Continuous
Temperature Control	Yes
Hold Up Time	> 100ms at 230VAC full load
Inrush Current	< 15A (230Vac)
Softstart	20ms typ.
Cooling	Natural 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	cUL60950/1950 (IEC)EN60950-1
Safety class 1(A)	VDE0805, VDE0100
Air & Surface Leakage Paths	> 8mm
Input/Output	Galvanic insulated
Minimum Load	0A
MTBF at full load (IEC61709)	250000h at 45°C
Dimensions (HxWxD)	3U 8FS DIN41494, D=160mm
Weight	600g
Connector	H15M DIN61612
Power Good	Green LED



H15M DIN41612 connector

- 32 = PE
- 30 = L
- 28 = N
- 26 = not used
- 24 = not used
- 22 = U3 -
- 20 = U2/U3 GND
- 18 = U2 +
- 16 = PF
- 14 = not used
- 12 = not used
- 8,10 = U1 GND
- 4,6 = U1 +

Electric Inrush Current Limiter

Limitation reproducible – independent from the ambient or the APW device temperature.

Fuse

The APW00803 has an electric short circuit protection. The fuse is a regular 5x20mm one and accessible from the outside.

AC-Input Overload Protection

The APW00803 has an electric protection against AC stress peaks up to 8KV 2.5KHz.

Conception:

The Camtec APW-Series provides you high efficiency by using a very small space in your rack system. Using the latest FET-technology leads to the most reliable system availability. The Camtec Overload Design guarantees state of the art reserves recommended. All devices are fixed so it can handle hard conditions of use on vehicles or military applications.

