

APW00803

Box Module

Made in Germany

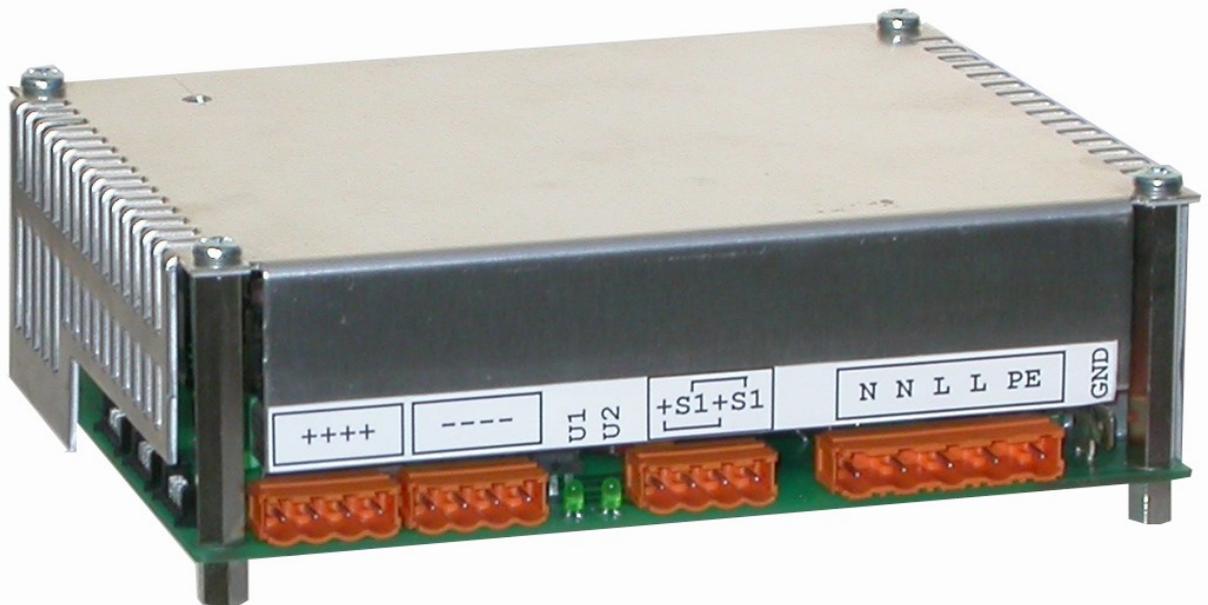
**80 Watts Enclosed Switching Power Supply
Input 173..265Vac 3 Outputs and Power Fail**

Short Specification:

- AC-Input 173..265Vac
- Compact closed box design
- Screw terminal plugs
- High efficiency up to 84%
- Continuous short circuit protected
- Minimum load = 0A
- High reliability
- Minimum heat emission
- Free air convection
- Power-fail logic signal
- Power-Mosfets & SMD-technology
- Input/output galvanic insulated
- Hold up time >30ms
- Overload protected
- Series operation mode
- Parallel operation mode
- EMI/EMS EN61000-6-2,3, EN55022 class B
- Safety : cUL60950/16950 IEC(EN)60950-1
- 24 hours burn in test
- Softstart & auto-recovery

The Camtec High Reliability Design:

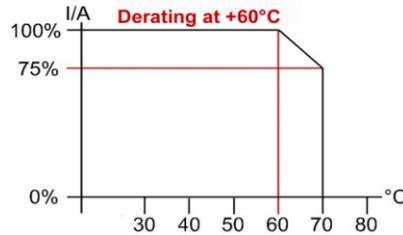
This power supply has been built for high reliability control scopes.



In accordance with IEC60950-1

AC-Input	173...265Vac , 47...63Hz , 240...375Vdc					
Input Rating	230Vac <1.0A					
Rated DC-Voltage	U1 +24V	U2 +5V	U3 +9V	U1 +12V	U2 +5V	U3 +9V
Rated DC-Current	2.5A	3.0A	500mA	5.0A	3.0A	500mA
Ripple [mVpp] ^{230Vac}	50 (20MHz)	20 (20MHz)	30 (20MHz)	25 (20MHz)	20 (20MHz)	30 (20MHz)
Output adj. range	24...28V	4,9...5,25V	fix	11.4...13.2V	4,9...5,25V	fix
Order code: APW00803.Voltages Example: APW00803.5.9.24	other combinations are upon request					

Tolerance	U1,2 ± 1% ; U3 ± 5%
Stability at Load Switch	< ± 0.1% 10-100%, 100-10%
Switching Frequency	
Minimum Load	0 A
Efficiency (in average over all outputs)	Up to 84%
Overload Protection	1,1x I _{rated} ,auto recovery
Over Voltage Protection	140% of U _{out} , auto recovery
Short Circuit Protection	Continuous
Temperature Control	Yes, auto recovery
Hold Up Time	> 30ms at 230Vac full load
Inrush Current	< 32A (230Vac)
Softstart	50ms typ.
Cooling	Free air convection
Environment 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	Galv. insulated
Power Fail Signal	Yes, maximum load = 50 mA
MTBF at full load	400000h
Dimensions (HxWxD)	46(54)x132x164mm
Weight	600g
Connectors (AC & DC)	Screw Terminal Plugs & Lumberg MICS-Connectors



Screw Terminal Plugs

- SK1 1 = L
2 = L
3 = N
4 = N
5 = GND
- SK3 1 = U1 DC-
2 = U1 DC-
- SK4 1 = U1 DC+
2 = U1 DC+
5 = U2 DC+
6 = U2 DC-
- SK6 7 = Power Fail
8 = not used
9 = U3 DC+
10 = U3 DC-

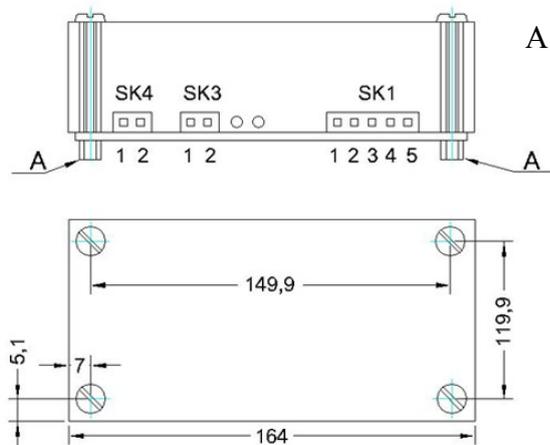
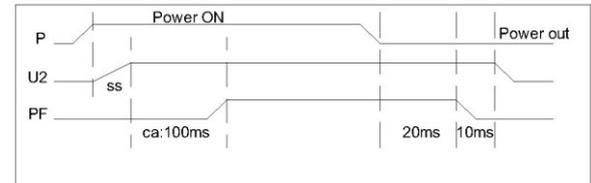
Ordering Codes:

- SK1 3520053 10pcs
SK3,4 3520037 10pcs
SK6 Lumberg MICA

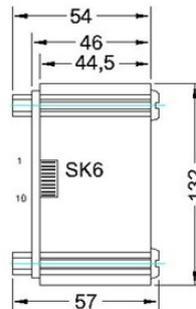
The Camtec High Reliability Design:

You can shortcut the 24V installation with no effect on the 5V control unit output. The power supply has a built in thinking MOSFET technology that protects its outputs from rude transient peaks. This power supply has been made for extreme long cable lengths to protect very difficult installations like lifts in high building facilities etc. It allows you some more features like going through control signals that can be used for example to start up a diesel-generator or a stand-by unit or an emergency lighting.

Power Fail Signal



A: M4 thread



How the Power Fail Signal works

the power fail signal will be activated after 20ms of a continued AC power failure. It provides a low +5V signal. The holdup time of the power supply will remain another 10ms to allow security activities of your control units. The pull-up resistor is fixed at 1.2K . Make sure the low +5V-signal has a maximum load of 50mA.