

Primary Switched Power Supply 19"/3U 80W (100W)

Triple Output CPM 102/PFS



Ordering Information

Type	Output () Power Boost	Input Voltage *	Installation Width	Article No. *1
CPM 102/PFS with PF-signal	O1 = 5V ; 12A (13A) O2 = 12V ; 1A (1.2A) O3 = 12V ; 3A (4A)	230 Vac	14HP/3U	330-063-02

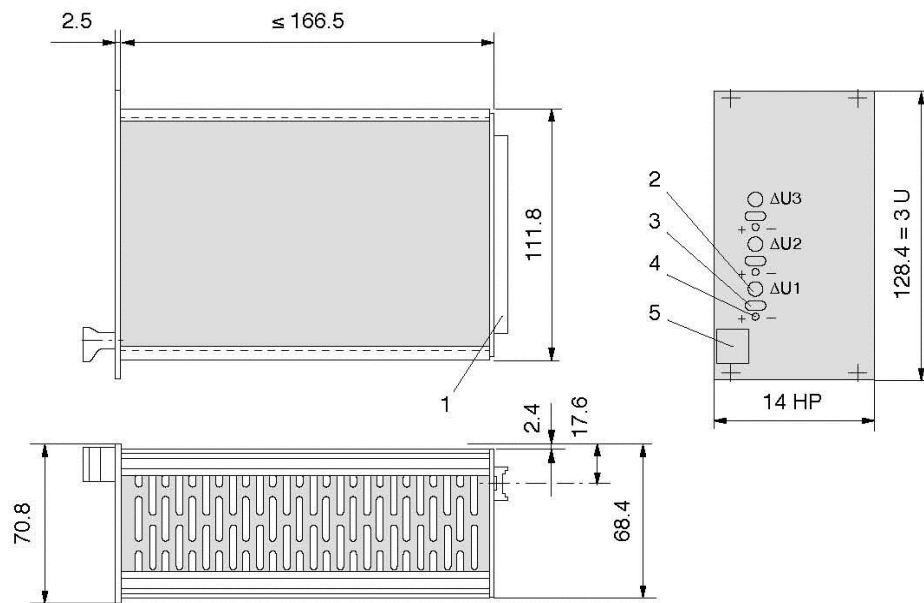
* Range alterable with jumpers

*1 Front panel: front side anodized, backside chromated

Dimensions in mm

- 1 = connector
- 2 = potentiometer
- 3 = test socket
- 4 = LED, green
- 5 = grip

1 HP = 5.08mm



Connector Pin Assignment H15

Free pins may not be connected external!

+ Output 1	4	Live L1	28
+ Sense Lead 1	6	Neutral N	30
- Output 1	8	Earth PE	32
- Sense Lead 1	10		leading
Power Fail Collector	12		
Power Fail Emitter	14		
+ Output 2	16		
- Output 2	18		
+ Output 3	20		
- Output 3	22		
I/O External ON/OFF	24		

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Technical Data

Guaranteed values after a warm-up period of approx. 15 min. at nominal load, measured at the unit's output.

Output		O1	O2	O3
Output Voltage	[Vdc]	5	12	12
Adjustment Range (+)	[V]	0.5	1	1
Output Current				
Nominal (total power max. 80W)	[A]	12	1	3
Power Boost (total power max. 100W)	[A]	13	1.2	4
Current Limiting	[A]	13.5	1.3	4.1
Characteristic Curve		approx. V-I		
Type of Regulation		primary switched	transductor regulated (O2/O3)	
Efficiency	[%]	≥ 75		
Voltage Deviation for				
Load Change 0... 100% (static)	[mV]	≤ 5 (10)*	≤ 50 (100)*	≤ 50 (100)*
Mains Voltage Change Vin min-Vin max	[mV]	≤ 5 (10)*	≤ 10 (20)*	≤ 10 (20)*
Residual Ripple (100Hz)	[mVpp]	≤ 10 (20)*	≤ 10 (20)*	≤ 10 (20)*
Operating Frequency Ripple (50kHz)	[mVpp]	≤ 10 (20)*	≤ 10 (20)*	≤ 10 (20)*
Superimposed Switching Spikes	[mVpp]	≤ 50 (100)*	≤ 80 (200)*	≤ 80 (200)*
Dynamic Voltage Deviation for Δlo = 65...100% Inom	[mV]	≤ 200 (300)*	≤ 100 (300)*	≤ 200 (300)*
Regulation Time for Δlo = 65...100% Inom	[μs]	≤ 200 (400)*	≤ 200 (400)*	≤ 300 (800)*
Starting Delay	[ms]	≤ 100		
Overvoltage Protection Output				
Factory Setting (tol. +0.5V)	[V]	6.5	-	-
Residual Voltage after Tripping	[V]	0		
Sense Lead Operation for O1 (load line compensation)	[V]	max. 0.25 per load line	-	-
Overload Protection		continuous short-circuit-proof		
Temperature Coefficient	[ppm/K]	200		
Input Voltage	Nominal [Vac]	115		230
Operating Range (alterable with jumpers)	[Vac]	+15%/-20%	≈ 92-132	+15%/-20% ≈ 184-264
Frequency (up to 440Hz on request)	[Hz]	50 - 60 ±10%	≈ 45-66	50 - 60 ±10% ≈ 45-66
in the Event of Mains Failure at Nominal Load:				
Buffer Time	tBuff [ms]	≥ 30		
Bridging Time	tB [ms]	≥ 25		
Prewarning Time	tP [ms]	≥ 5		
Max. Input Current (nominal range)	[A]	2.4		1.2
Starting Inrush Current				
Unit Cold	$\int i^2 dt ; I_p$ [A ² s] ; [A]	≤ 4 ; ≤ 55		
Worst Case	$\int i^2 dt ; I_p$ [A ² s] ; [A]	≤ 7 ; ≤ 75		
Unit Fuse (primary, internal)	[A]	T 2.5		
Operating Temperature Range (measured 5mm from the side wall)	[°C]	- 25... 0... + 70, without derating		
Max. allowed Case-/Radiator-Temperature	[°C]	+ 85		
Storage Temperature Range	[°C]	- 40... + 85		
Weight approx.	[kg]	1.1		

For definitions, informations about electrical safety, EMC and mechanical stressability see description.

* Specifications in brackets are output data at T amb = -25°C.