Primary Switched Power Supply 19"/6U 240W

Double Output FPD 24.5

Ordering Information

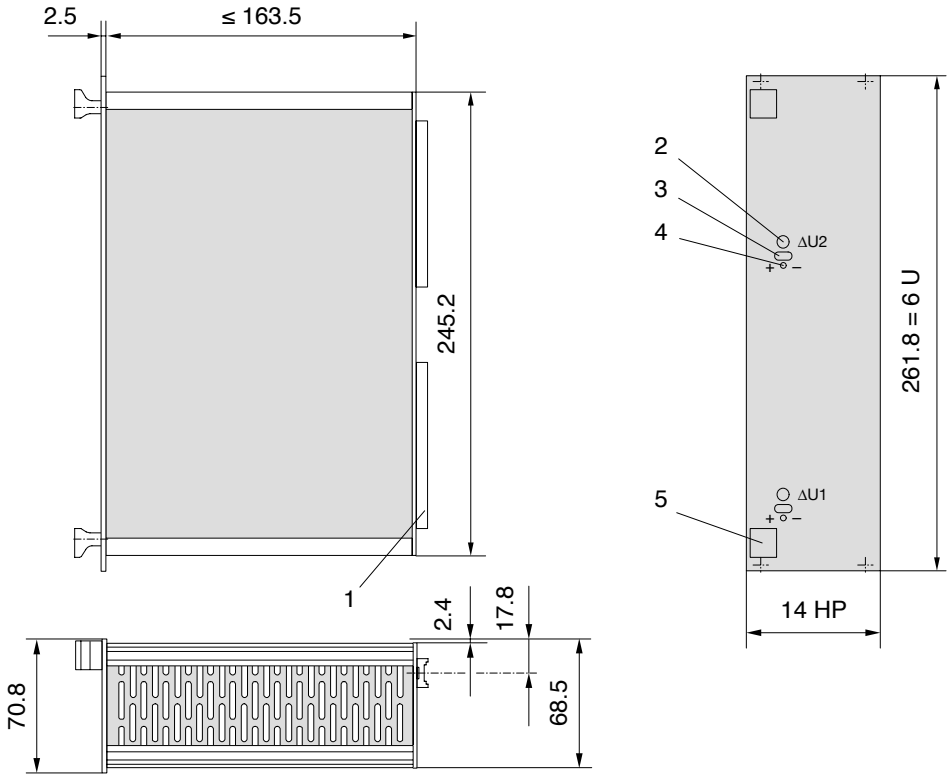
Type	Outputs ( ) Power Boost	Input Voltage	Installation Dimensions	Article No*
FPD 24.5	O1 = 24V ; 5A O2 = 24V ; 5A	230Vac	14HP/6U	**350-009-02**

* Front panel natural anodized

Dimensions in mm

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

1 HP = 5.08mm



H15 Connector Pin Assignment

Free pins may not be connected external!

Top Connector		Pin
+ Sense Lead 2		8
PA		10
I/O Extern ON/OFF		12
+ Output 2		14, 16, 18
– Sense Lead 2		20
– Output 2		22, 24, 26
Live	L1	28
Neutral	N	30
Earth ⏚	PE	32 leading

Bottom Connector		Pin
+ Sense Lead 1		8
PA		10
I/O Extern ON/OFF		12
+ Output 1		14, 16, 18
– Sense Lead 1		20
– Output 1		22, 24, 26
Live	L1	28
Neutral	N	30
Earth ⏚	PE	32 leading

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EMC + Safety tested

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**
Output Voltage	[Vdc]	**24**	**24**
Adjustment Range (±)	[V]	2	2
Output Current Nominal	[A]	5	5
Current Limiting Characteristic Curve	[A]	5.5 approx. V – I	5.5
Type of Regulation		primary switched	
Efficiency	[%]	≥ 85	
Voltage Deviation for Load Change 0... 100% (static) Mains Voltage Change $V_{in\ min}$ –$V_{in\ max}$	[mV] [mV]	≤ 10 (20)* ≤ 10 (20)*	≤ 10 (20)* ≤ 10 (20)*
Residual Ripple (100Hz)	[mV_{PP}]	≤ 10 (20)*	≤ 10 (20)*
Operating Frequency Ripple (70kHz)	[mV_{PP}]	≤ 10 (20)*	≤ 10 (20)
Superimposed Switching Spikes	[mV_{PP}]	≤ 80 (150)*	≤ 80 (150)*
Dynamic Voltage Deviation for ΔI_O = 65...100% I_{NOM}	[mV]	≤ 150 (300)*	≤ 150 (300)*
Regulation Time for ΔI_O = 65...100% I_{NOM}	[µs]	≤ 250 (500)*	≤ 250 (500)*
Starting Delay	[ms]	≤ 100	
Overvoltage Protection Factory Setting (Tol.+0.5V) Residual Voltage after Tripping	 [V] [V]	 27 0	 27 0
Sense Lead Operation for O1/O2 (load line compensation)	[V]	max. 0.25 per load line	
Overload protection		continuous short-circuit-proof	
Temperature Coefficient	[ppm/K]	200	
Input Voltage	[Vac]	115/230 +15%, –20% ; 45 - 66Hz (up to 440Hz on request)	
in the Event of Mains Failure at Nominal Load: Buffer time t_{Buff}	 [ms]	 ≥ 30	
Max. Input Current (each mains input) (worst case)	[Vac] [A]	115-Range 3	230-Range 1.5
Starting Inrush Current (each mains input) Unit Cold $\int i^2dt$; I_P Worst Case $\int i^2dt$; I_P	 [A^2s] ; [A] [A^2s] ; [A]	 ≤ 1 ; ≤ 21 ≤ 3.2 ; ≤ 75	
Unit Fuse (each mains input, internal)	[A]	T 3.15	
Operating Temperature Range (measured 5mm from the side wall)	 [°C]	 – 25... 0… + 70, without derating	
Case Temperature	[°C]	max. + 85	
Storage Temperature Range	[°C]	– 40... + 85	

For definitions and descriptions, informations about EMC and mechanical stressability see applications.

* Specifications in brackets are output data at T_{amb} = – 25°C.