

Low Emission AC/DC-Converter 19"/3U 48W

Double Output CAD 15.1,6



Ordering Information

Type	Output () Power Boost	Input Voltage *	Installation Width	Article No. *1
CAD 15.1,6	O1 = 15V ; 1.6A O2 = 15V ; 1.6A	115/230 Vac	8HP/3U	173-002-02

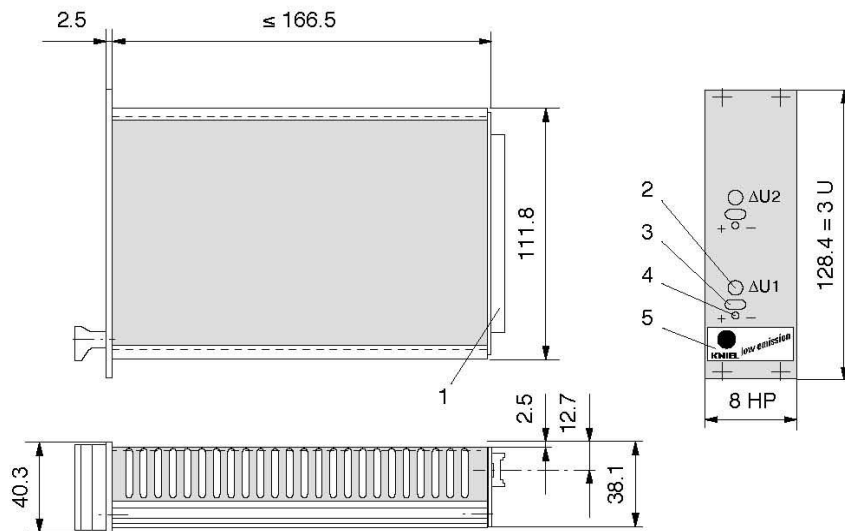
* automatic mains shift

*1 Front panel: front side anodized, backside chromitized

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!

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

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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			
Output Voltage	[Vdc]	15	15			
Adjustment Range (±)	[V]	1	1			
Output Current						
Nominal	[A]	1.6	1.6			
Current Limiting	[A]	1.9	1.9			
Characteristic Curve		approx. V-I				
Type of Regulation		resonant conv.				
Efficiency	[%]	≥ 80				
Voltage Deviation for						
Load Change 0... 100% (static)	[mV]	≤ 20	≤ 20			
Mains Voltage Change Vin min-Vin max	[mV]	≤ 10	≤ 10			
Residual Ripple (100Hz)	[mVpp]	< 2	< 2			
Operating Frequency Ripple (50-190kHz)	[mVpp]	< 4	< 4			
Superimposed Switching Spikes	[mVpp]	< 4	< 4			
Dynamic Voltage Deviation for						
ΔIo = 65...100% Inom	[mV]	≤ 80	≤ 80			
Regulation Time for						
ΔIo = 65...100% Inom	[μs]	≤ 250	≤ 250			
Starting Delay	[ms]	≤ 800				
Overvoltage Protection Output						
Factory Setting	[V]	voltage limitation by TVS diode				
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	Nominal	[Vac]	100-120	205-240		
Operating Range (automatic mains shift)		[Vac]	+6%/-10%	≈ 90-127	+6%/-10%	≈ 185-255
Frequency		[Hz]	50 - 400 ±10%	≈ 45-440	50 - 400 ±10%	≈ 45-440
in the Event of Mains Failure						
at Nominal Load: Buffer Time	tBuff	[ms]	≥ 25			
Max. Input Current (nominal range)		[A]	1.2	0.6		
Starting Inrush Current						
Unit Cold	$\int i^2 dt ; I_p$	[A ² s] ; [A]	≤ 0.6 ; ≤ 32			
Worst Case	$\int i^2 dt ; I_p$	[A ² s] ; [A]	≤ 1.5 ; ≤ 86			
Unit Fuse (primary, internal)		[A]	T 1.6			
Operating Temperature Range (measured 5mm from the side wall)*		[°C]	- 25... + 50			
Max. allowed Case-/Radiator-Temperature		[°C]	+ 70			
Storage Temperature Range		[°C]	- 40... + 85			
Weight approx.		[kg]	0.8			

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

* If it is not possible to measure 5mm beside the side wall, please measure 5mm under the power supply.