

Low Emission AC/DC-Converter 19"/3U 120W

Single Output CAA 15.8



Ordering Information

Type	Output () Power Boost	Input Voltage *	Installation Width	Article No. *1
CAA 15.8	O1 = 15V ; 8A	115/230 Vac	12HP/3U	175-002-02

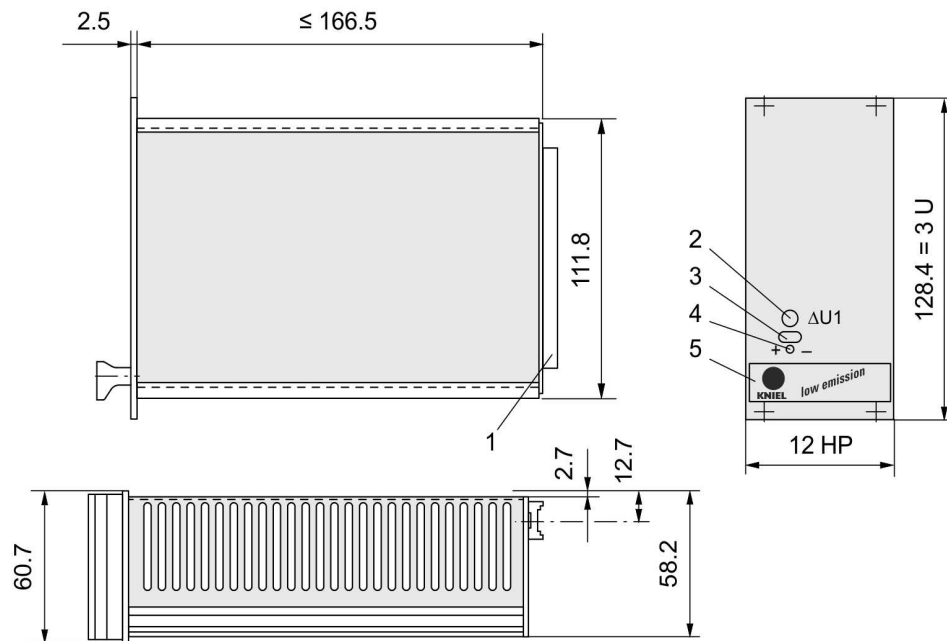
* automatic mains switch

*1 Front panel front side anodized, reverse side chromatinized

Dimensions in mm

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

1 HP = 5,08 mm



EMC + Safety
tested

UL 62368-1 (3. Edition)
CSA-C22.2 No.: 62368-1:19
IEC 62368-1:18

Connector Pin Assignment H15

Free pins may not be connected external!

	Pin
+ Sense Lead	4
+ Output	6, 8
Load Share	10
- Sense Lead	12
- Output	14, 16
PA	18
I/O External ON/OFF	20
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				
Output Voltage	[Vdc]	15				
Adjustment Range (±)	[V]	1				
Output Current						
Nominal	[A]	8				
Current Limiting	[A]	9				
Characteristic Curve		approx. V-I				
Function, Type of Regulation		Resonant				
Efficiency	[%]	≥ 84				
Voltage Deviation for						
Load Change 0... 100% (static)	[mV]	≤ 10				
Mains Voltage Change Vin min-Vin max	[mV]	≤ 5				
Residual Ripple (100Hz)	[mVpp]	< 4				
Operating Frequency Ripple (50-190kHz)	[mVpp]	< 6				
Superimposed Switching Spikes	[mVpp]	< 10				
Dynamic Voltage Deviation for ΔIo = 65...100% Inom	[mV]	≤ 130				
Regulation Time for ΔIo = 65...100% Inom	[μs]	≤ 250				
Starting Delay	[ms]	≤ 800				
Overvoltage Protection Output						
Factory Setting (tol. +0.5V)	[V]	17				
Residual Voltage after Tripping	[V]	0				
Sense Lead Operation (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...115		205...230	
Operating Range (automatic mains shift)		[Vac]	±10%	≈ 90...127	±10%	≈ 185...253
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]	≥ 40			
Max. Input Current (in nominal range)		[A]	2.5	1.5		
Starting Inrush Current						
Unit Cold	$\int i^2 dt ; I_p$	[A² s] ; [A]	≤ 1.7; ≤ 35			
Worst Case	$\int i^2 dt ; I_p$	[A² s] ; [A]	≤ 4.0; ≤ 70			
Unit Fuse (primary, internal)		[A]	T 3.15			
Operating Temperature Range (measured 5mm from the side wall)*		[°C]	-25...0...+50			
Max. allowed Case-/Radiator-Temperature		[°C]	+70			
Storage Temperature Range		[°C]	-40...+85			
Weight approx.		[kg]	0.9			

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

* If it is impossible to measure 5mm next to the side wall, the measurement is taken 5mm below the power supply.