Low Emission AC/DC-Module 24W

Single Output MAAS 24.1

Ordering Information

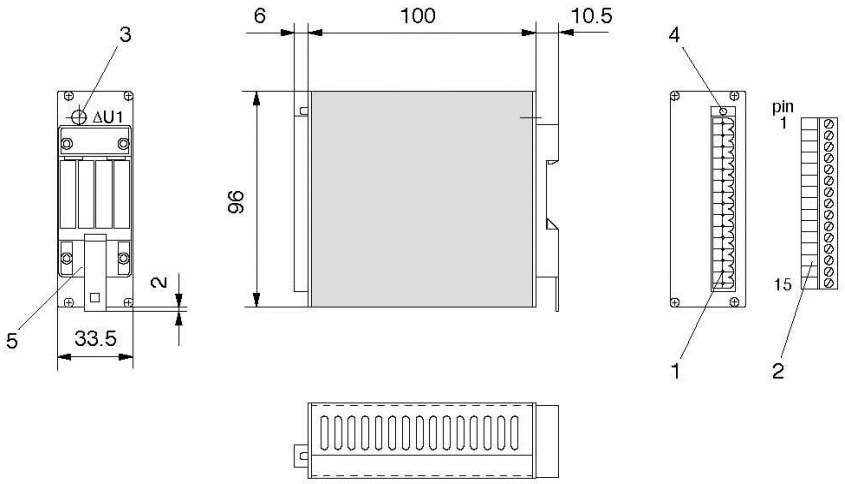
Type	Output ( ) Power Boost	Input Voltage *	Housing Dimensions see drawing	Article No. *1
MAAS 24.1	O1 = 24V ; 1A	115/230 Vac	100x33.5x96mm	**170-614-00**

* automatic mains shift

*1 Housing chromatized

Dimensions in mm without accessories

1 = connector
2 = female connector with screw terminal strip (accessory)
3 = potentiometer
4 = LED, green
5 = mounting device (according to EN 50022)



Terminal Strip

Free pins may not be connected external!

	Pin
+ Output 1	1
+ Sense Lead 1	2
- Output 1	3
- Sense Lead 1	4
I/O External ON/OFF	11
Live L1	13
Neutral N	14
Earth PE	15

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CE
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**			
Output Voltage	[Vdc]	**24**			
Adjustment Range (±)	[V]	2			
Output Current Nominal	[A]	1			
Current Limiting Characteristic Curve	[A]	1.3 approx. V-I			
Type of Regulation		resonant conv.			
Efficiency	[%]	≥ 81			
Voltage Deviation for Load Change 0... 100% (static) Mains Voltage Change Vin min-Vin max	 [mV] [mV]	 ≤ 20 ≤ 10			
Residual Ripple (100Hz)	[mVpp]	< 2			
Operating Frequency Ripple (50-190kHz)	[mVpp]	< 6			
Superimposed Switching Spikes	[mVpp]	< 6			
Dynamic Voltage Deviation for ΔIo = 65...100% Inom	[mV]	≤ 80			
Regulation Time for ΔIo = 65...100% Inom	[µs]	≤ 250			
Starting Delay	[ms]	≤ 800			
Overvoltage Protection Output Factory Setting	[V]	voltage limitation by TVS diode			
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]	**108 - 120**		**216 - 240**	
Operating Range (automatic mains shift)	[Vac]	+6%/-10%	≈ 97-127	+6%/-10%	≈ 194-254
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]	0.6		0.3	
Starting Inrush Current					
Unit Cold $\int i^2 dt$; I_p	[$A^2 s$] ; [A]	≤ 0.41 ; ≤ 32			
Worst Case $\int i^2 dt$; I_p	[$A^2 s$] ; [A]	≤ 1.1 ; ≤ 86			
Unit Fuse (primary, internal)	[A]	T 0.63			
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]	0.4			

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