

BEG-300-1224

300 Watt

- ✓ Dual output +12V and +24V
- ✓ 150 Watt continuous fanless power!
- ✓ EN/UL 62368-1 certified

The BEG-300-1224 supplies a 12 V and a 24 V output voltage. This enables simultaneous supply of main board, display, printer and coin validator with only one power supply. The BEG starts at a temperature of -20°C and can be operated without fan cooling up to +70°C ambient temperature. It can therefore be used in convection cooled devices as well as in ventilated 1HE systems. The power supply is characterized by robustness and high reliability.



Industry

Technical data	
Input voltage	90...264 VAC, active PFC
Input frequency	47...63 Hz
Input current	Max. 6 A (90 VAC)
Inrush current	Max. 70 A (230 VAC), 35 A (115 VAC)
Efficiency	App. 88% at nominal load
Hold up time	20 ms at 80% full load
Protection	Short circuit protection: Switch off with auto recovery Overvoltage protection: Switch off at >130% Overload protection: Fold-back mode 110...140%, with auto recovery Overtemperature protection: Switch off with auto recovery
Load regulation	±5%
Earth leakage current	≤3.5 mA / 240 VAC
Safety / EMC	EN/UL 62368-1, CE
Temperature	Operating: -20...+70°C / Storage: -20...+85°C
Derating	In the range of +50...+70°C, 2.5% / °C
Max operation altitude	2000 m
MTBF	100 000 h according to MIL-HDBK-217F at +30°C
Humidity	Operating: 10...85% RH, non-condensing / Storage: 10...90% RH, non-condensing
Dimensions (WxDxH)	101.6 x 152.4 x 39.9 mm ±0.5 mm
Weight (net)	0.7 kg

Product specific data	
Power Good Signal (PG)	Switch on delay 100...500 ms
Inhibit (INH)	Power supply switch off via bridge between Pin 2 (RTN) and Pin 4 (INH) or low signal at Pin 4 (INH)
Adjustment range	V1: ±5%
Cooling	Convection cooled: 150 W max. total power Fan cooled: 300 W max. total power using a 26.84 CFM fan

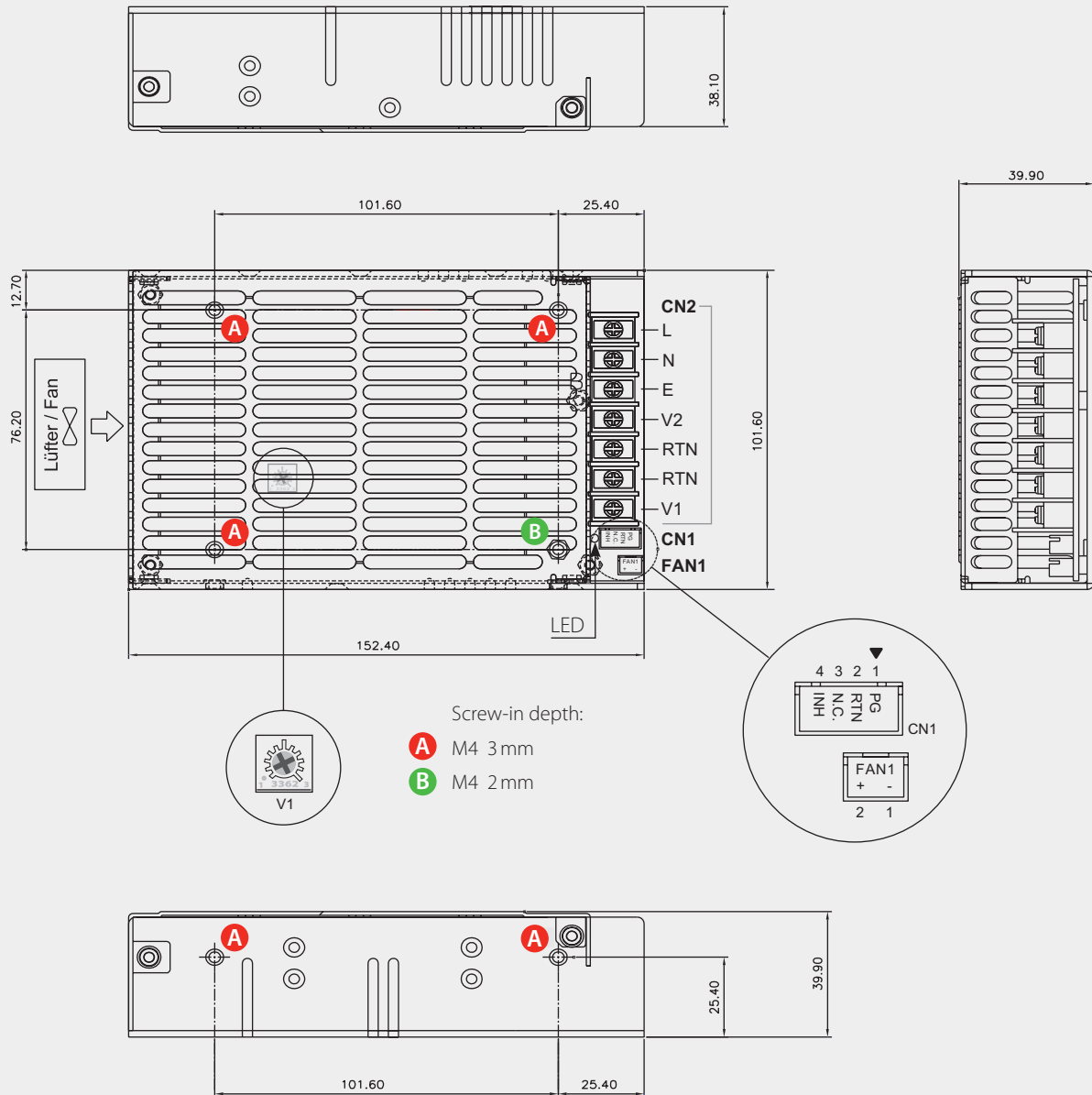
Article No.	Output	Output voltage	Output current min.	Output current max.		Load regulation	Ripple & Noise
				Convection cooling	Fan cooling		
BEG-300-1224	V1	+12V	0.5 A	12.5 A	16.6 A	±5%	120 mV _{SS}
	V2	+24V	0.5 A	6.2 A	8.3 A	±5%	240 mV _{SS}

Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 0.1 μF and 0.22 μF capacitor at each output.

As a power component this PSU is for assembly purposes only and must not be operated in unassembled condition. The final assembly has to comply with the valid EMC and safety standards.

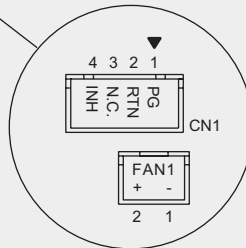
Drawing BEG-300-1224

Tolerance ±0.5 mm



Screw-in depth:

- A** M4 3 mm
- B** M4 2 mm



Connectors:

CN1 (JST XHP-4 or identical)

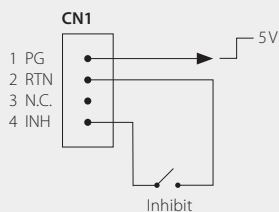
- 1 PG
- 2 RTN
- 3 N.C.
- 4 INH

FAN1 EXT (JST XHP-2 or identical)

- 1 -
- 2 + (12VDC / 300mA max.)

CN2 (clamping screw)

- 1 V1: +12V
- 2 RTN (-)
- 3 RTN (-)
- 4 V2: +24V
- 5 E (Ground)
- 6 N
- 7 L



Derating

