

BET-0900-T

90 Watt

- ✓ Desktop adapter for industrial applications
- ✓ Only with 105°C high quality capacitors
- ✓ Very high reliability (MTBF)
- ✓ Energy efficiency level VI / Tier 2
- ✓ High efficiency
- ✓ Low standby consumption <0.15 W
- ✓ Certified according to EN/IEC/UL 62368-1 (Ed.2)
- ✓ Wide temperature range up to +60 °C
- ✓ International approvals



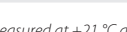
NEW



Desktop adapter

Technical data	
Input voltage	90...264 V AC, active PFC
Input frequency	50...60 Hz
Input current	1.2 A max.
Inrush current	60 A max (230 VAC, 25 °C)
Efficiency	App. 90%
Idle consumption	<0.15 W
Hold-up time	App. 20 ms (115 VAC)
Protection	Short circuit protection: Switch off with auto recovery Overvoltage protection: max. 150 % of nominal voltage Overload protection: max. 150 % of nominal current, switch off with auto recovery Overtemperature protection
Insulation voltage	Input / Output: 4242 VDC, Input / FG: 2718 VDC
Line regulation	±3 %
Load regulation	±±4 %
Leakage current	<0.5 mA earth leakage current (264 VAC)
Safety / EMC	Certified according to EN/IEC/UL 62368-1 (Ed.2), CE, designed according to CCC
Temperature	Operating: -20...+60 °C / Storage: -20...+85 °C
Derating	In the range of +40...+60 °C, 2.5 % / °C
Max. operation altitude	5000 m
MTBF	>869000 h according to Telcordia SR-332 at +40 °C
Humidity	Operating: 10...85 % RH, non-condensing / Storage: 10...90 % RH, non-condensing
Dimensions (WxDxH)	64 x 151 x 36 mm ±0.5 mm
Weight (net)	0.5 kg

Product specific data	
Energy efficiency level	Meets DoE / CEC / GEMS / NRCan level VI, ErP level V and Tier 2
Earth conductor	The -Vout (secondary GND) is connected to PE as <u>functional earth</u> . If your application needs a safety earth an extra direct PE connection to earth must be implemented!

Article No.	Pin	Output voltage	Output current min	Rated load	Ripple & Noise	Efficiency (typ.)
BET-0912-T		+12 V	0 A	7.0 A	<120 mV _{pp}	App. 90 %
BET-0912-T-B3		+12 V	0 A	7.0 A	<120 mV _{pp}	App. 90 %
BET-0912-T-B5		+12 V	0 A	7.0 A	<120 mV _{pp}	App. 90 %
BET-0919-T		+19 V	0 A	4.7 A	<190 mV _{pp}	App. 90 %
BET-0919-T-B1		+19 V	0 A	4.7 A	<190 mV _{pp}	App. 90 %
BET-0919-T-B2		+19 V	0 A	4.7 A	<190 mV _{pp}	App. 90 %
BET-0924-T		+24 V	0 A	3.7 A	<240 mV _{pp}	App. 90 %
BET-0924-T-B3		+24 V	0 A	3.7 A	<240 mV _{pp}	App. 90 %

Ripple and Noise was measured at +21 °C ambient temperature by a 20 MHz bandwidth limited oscilloscope with connected 0.1 µF and 10 µF capacitors at the output and can differ while starting when ambient temperature drops below 0 °C. Output voltage was adjusted to ±2 % at 60 % load. The final assembly has to comply with the valid EMC and safety standards.

Optional Accessories

▷▷▷ For detailed information please visit our website www.bicker.de and refer to the article number.

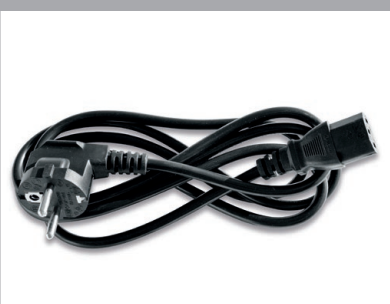
KP-01 | Cling pad

Cling pad for fast and easy attachment of desktop adapters, 113 x 45 mm, self-adhesive



X1-132 | Power cord

With IEC-60320-C13 connector, length 1800 mm



PSZ-1008 | Female adapter

DC jack on screw terminal, DC jack: 2.5 x 5.5 mm, AWG 26–12, Nominal current 5A max.



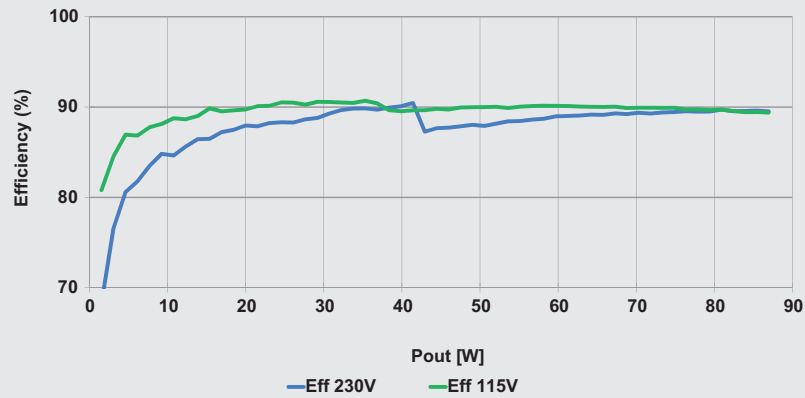
CB-TRG-EXT | DC extension cable

Extension cable for desktop adapters with DC plug and jack

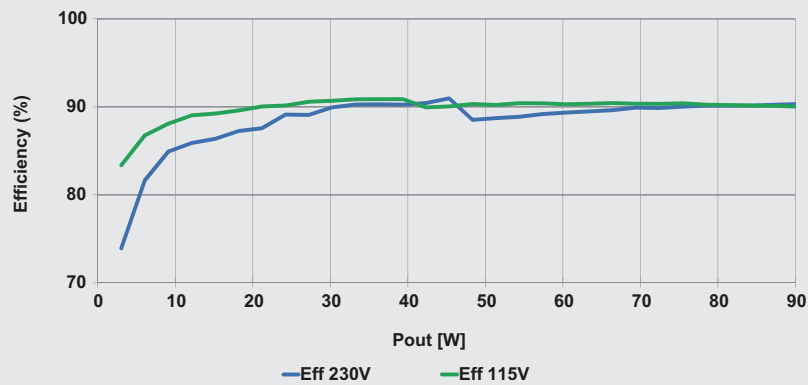


Efficiency curves

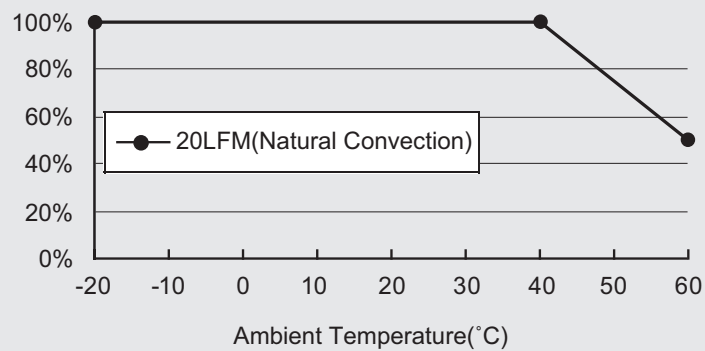
Efficiency curve 12 V



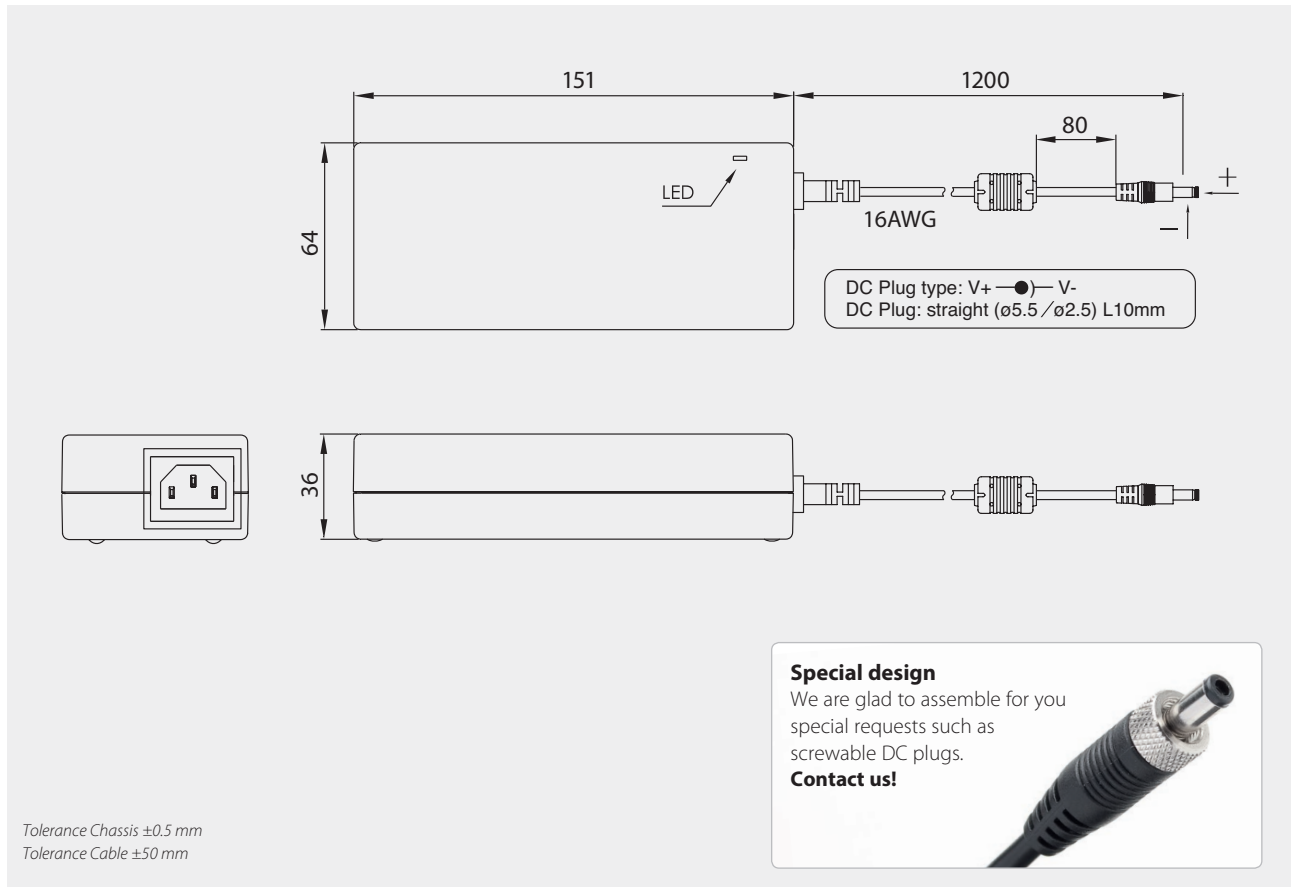
Efficiency curve 24 V



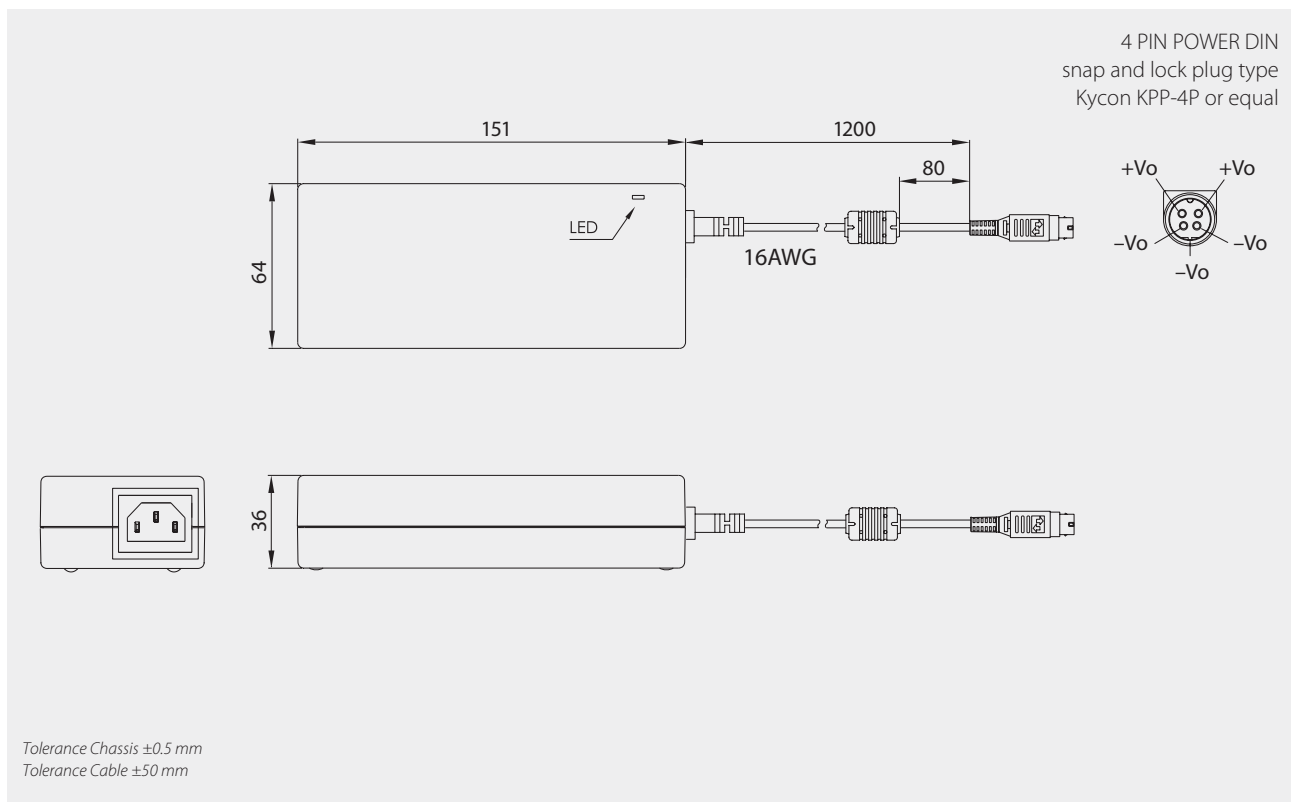
Derating



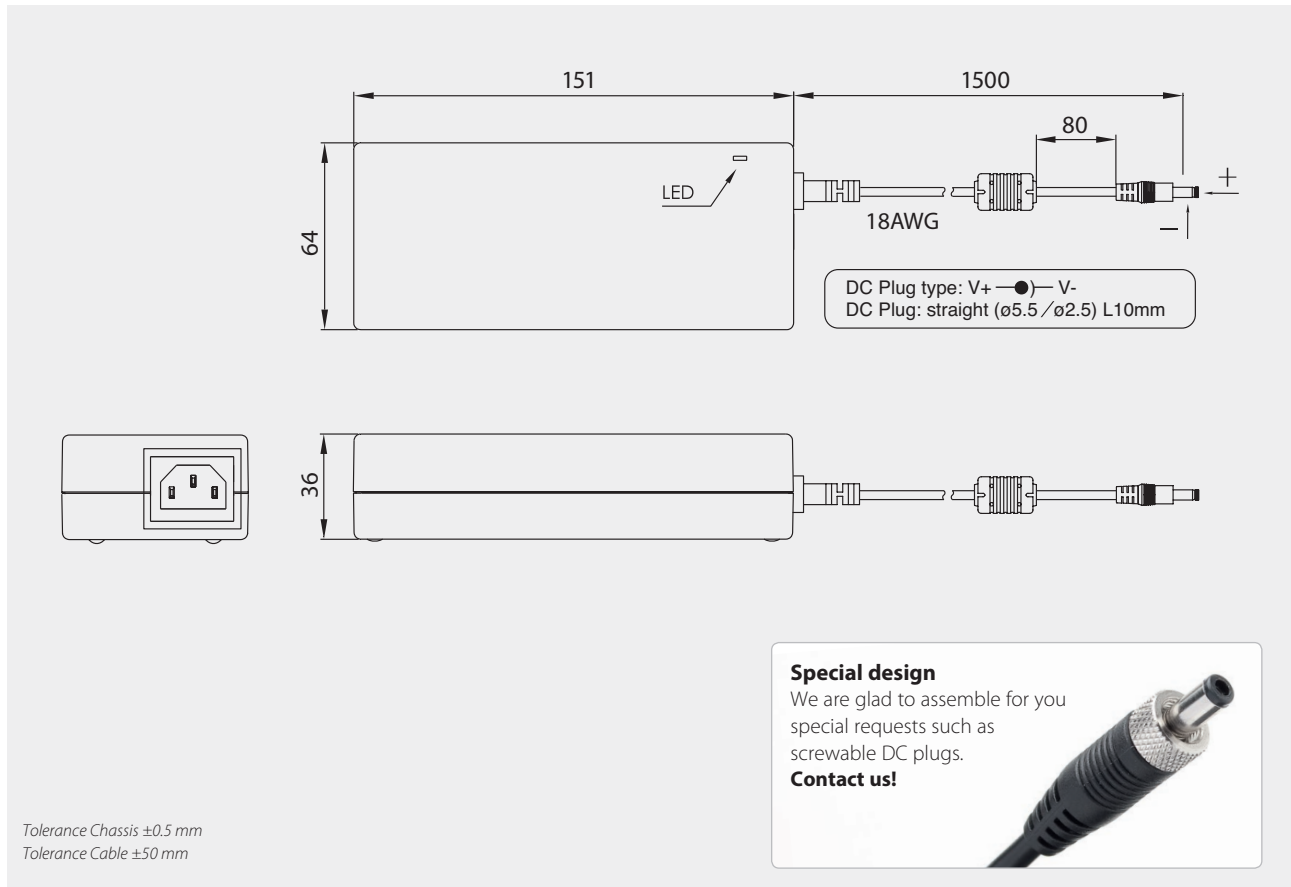
Drawing BET-0912-T



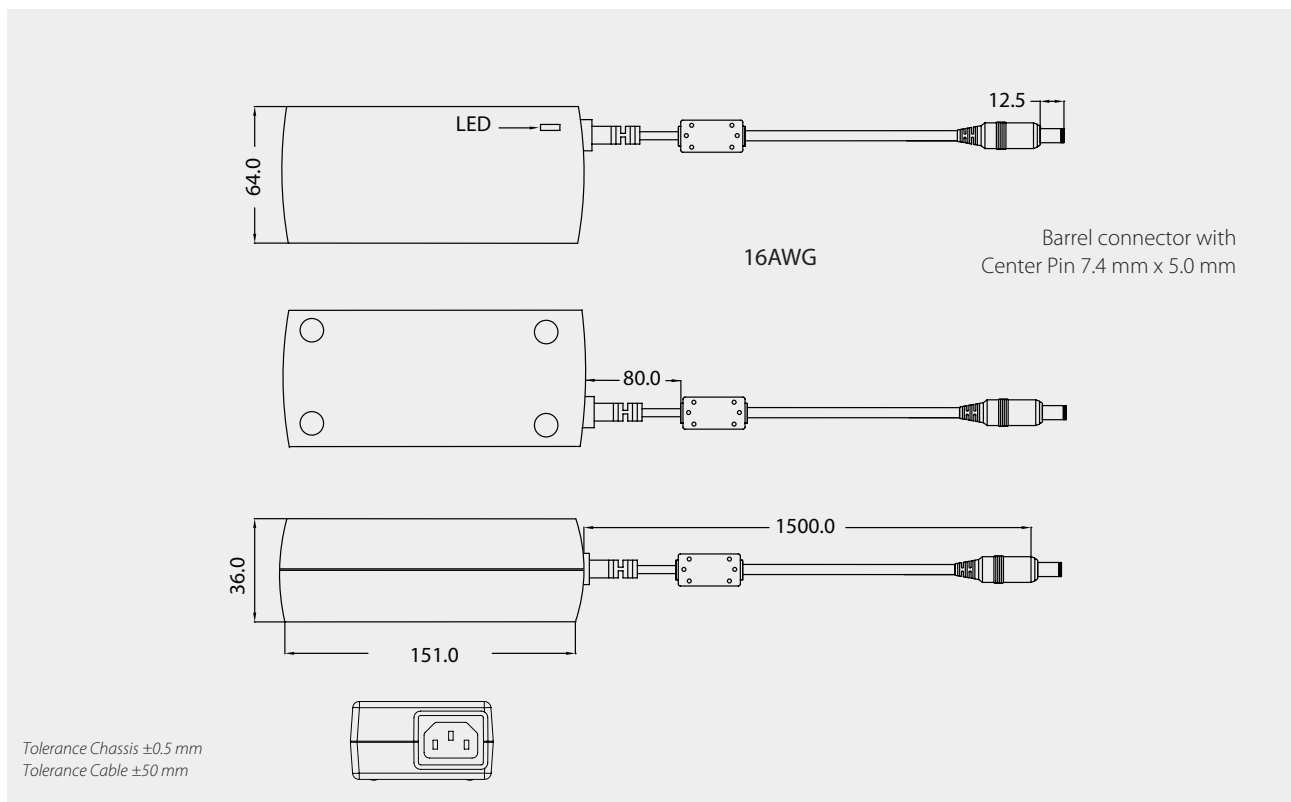
Drawing BET-0912-T-B3



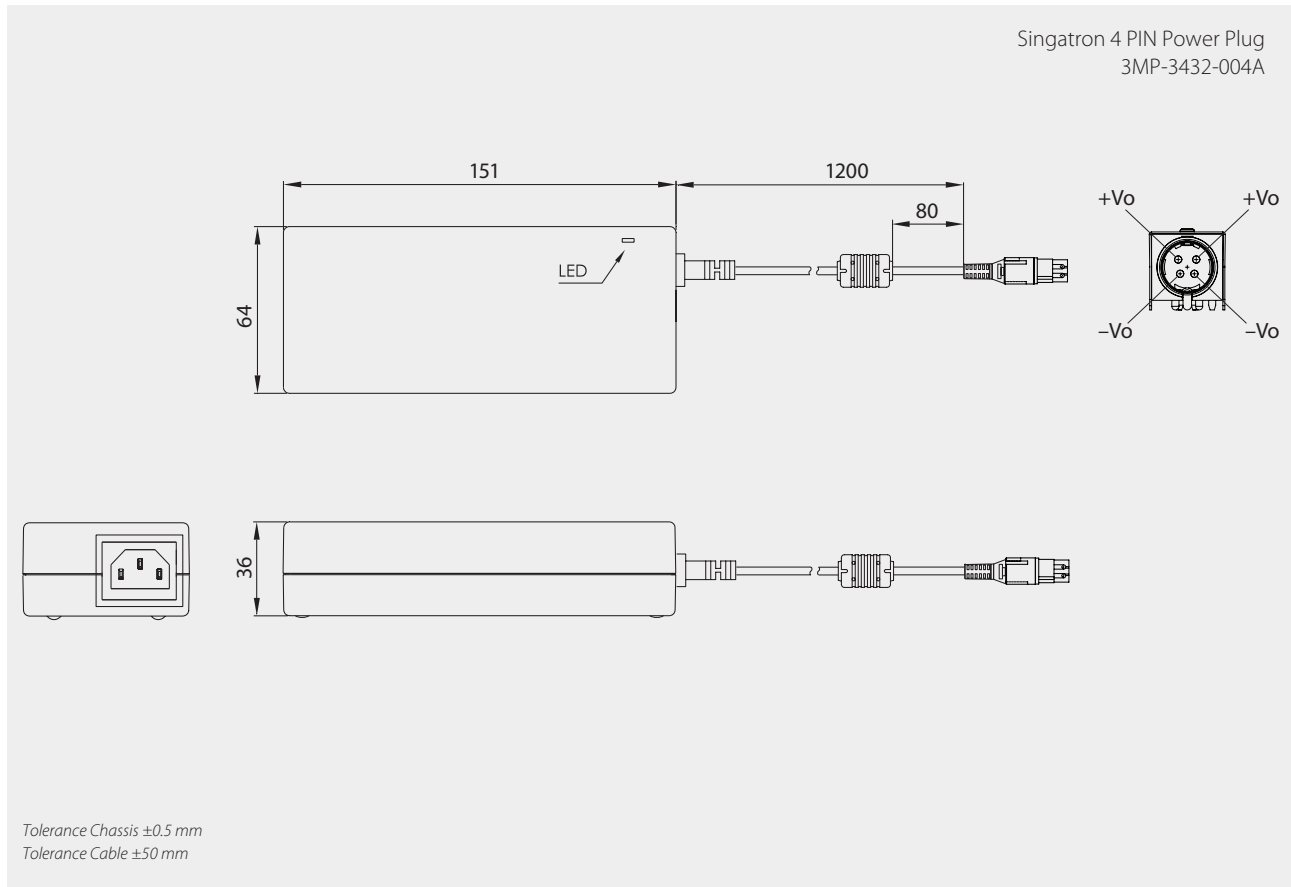
Drawing BET-0919-T, BET-0924-T



Drawing BET-0912-T-B1



Drawing BET-0912-T-B5, BET-0919-T-B2, BET-0924-T-B3



Desktop adapter