

TR30M

30 Watt

- Desktop adapter for medical devices
- Class 2 equipment – without PE
- Compliant with ECO standard CEC level IV

The series TR30M desktop adapters supply power to medical devices. They are internationally certified according to IEC/EN/UL 60601-1 standards. The desktop adapters are designed for many years of reliable operation. Robustly constructed and equipped only with top quality components. The entire closed plastic case can easily be desinfected. Other models with different output voltages are available on request.



Technical data

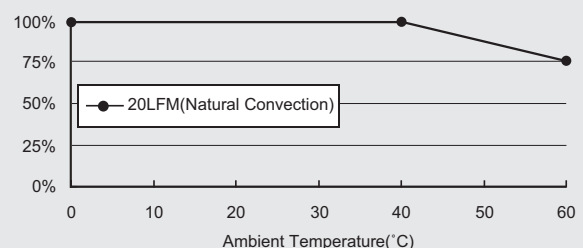
Input voltage	90...264 V AC
Input frequency	47...63 Hz
Inrush current	50 A max (240 VAC)
Efficiency	75...80 %, depending on model
Idle consumption	≤0.5 W
Hold up time	16 ms / 115 VAC
Protection	Short circuit protection: Switch off with auto recovery Overvoltage protection
Line regulation	±1 % at rated load and input voltage change of 100...240 VAC
Load regulation	±≤2...6 % (load step ±40 % related to 60 % load)
Leakage current	<100 µA
Safety / EMC	TÜV (IEC/EN60601-1 3rd Edition), UL (UL60601-1), CAN/CSA-C22.2 No 601.1-M90, IEC60950-1, TÜV (EN60950-1), CB, CE
Operating temperature	0...+60 °C
Derating	In the range of +40...+60 °C, 1.25 % / °C
MTBF	>300 000 h according to MIL-HDBK-217F at +25 °C
Storage temperature	-20...+85 °C
Operating humidity	10...93 % RH, non-condensing
Dimensions (WxDxH)	50 x 110 x 30 mm ±0.5 mm
Weight (net)	0.22 kg

Product specific data

ECO standard	CEC level IV, CEC level V on request
Max. operation height	3000 m



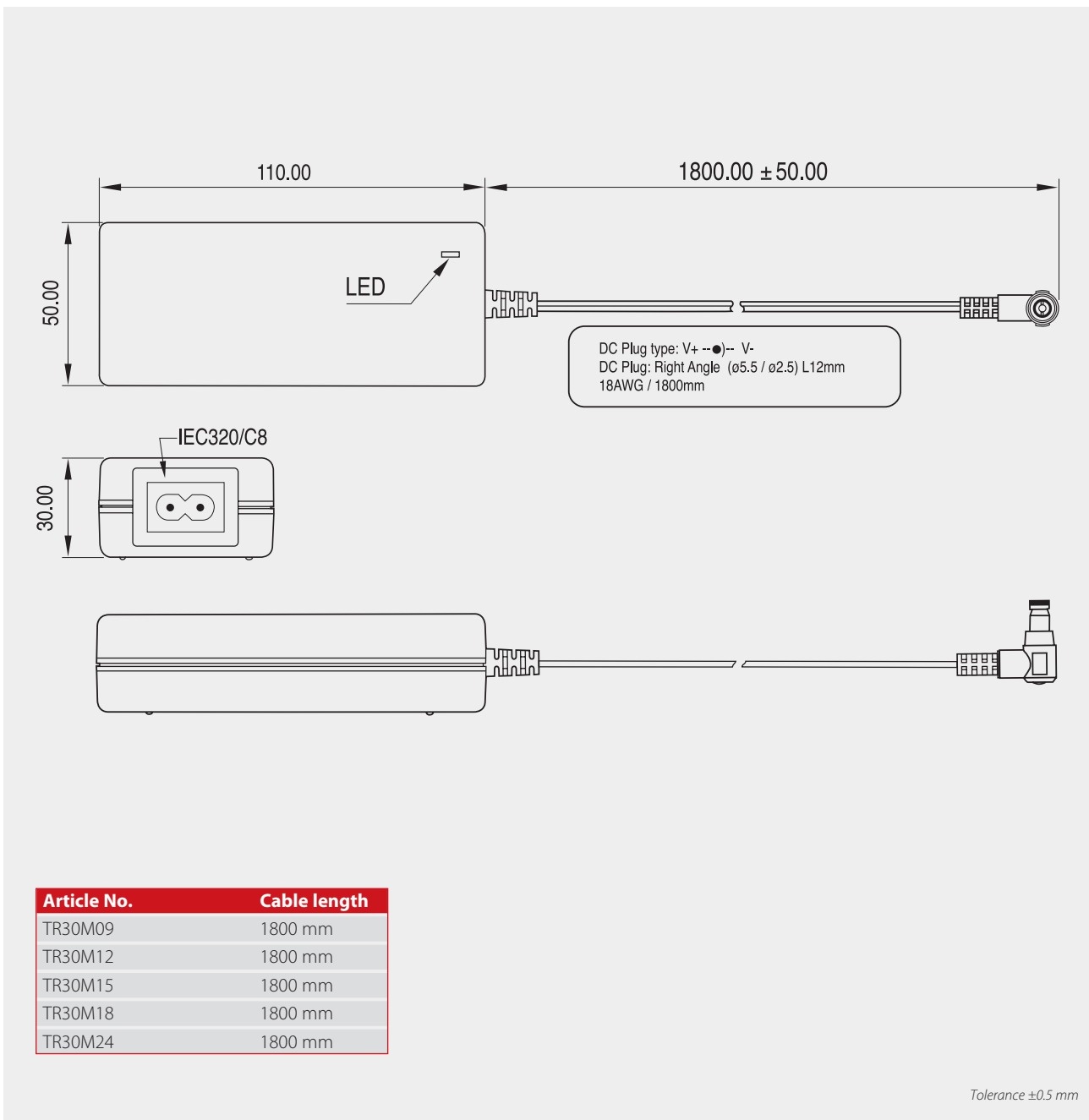
Derating



Article No.	Output voltage	Output current min	Output current rated load	Ripple & Noise	Efficiency
TR30M09	+9 V	0 A	3 A	<120 mV _{SS}	75 %
TR30M12	+12 V	0 A	2,5 A	<150 mV _{SS}	76 %
TR30M15	+15 V	0 A	2 A	<180 mV _{SS}	78 %
TR30M18	+18 V	0 A	1,65 A	<190 mV _{SS}	78 %
TR30M24	+24 V	0 A	1,25 A	<240 mV _{SS}	80 %

Ripple and Noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 100 nF and 10 µF capacitors at the output. Output voltage was adjusted to ±2 % at 60 % load. The final assembly has to comply with the valid EMC and safety standards.

Drawing TR30M



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

Article No.	Description
KP-01	Cling pad for fast and easy attachment of desktop adapters