

TR60M

60 Watt

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

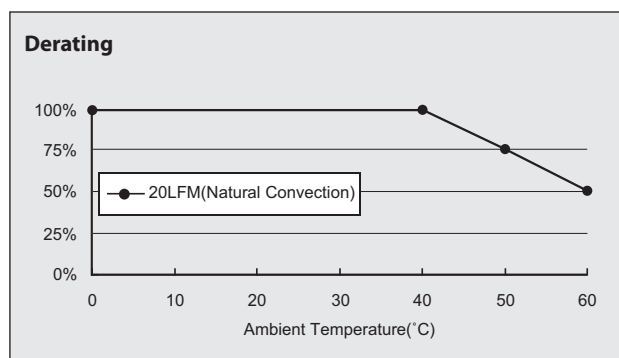
The series TR60M desktop adapters supply power to medical devices. They are internationally certified according to IEC/EN/UL 60601-1 standards. The desktop adapters are designed for many years of reliable operation. Robustly constructed and equipped only with top quality components. The entire closed plastic case can easily be desinfected. Other models with different output voltages are available on request.



Desktop adapter

Technical data	
Input voltage	90...264 V AC
Input frequency	47...63 Hz
Inrush current	80 A max (240 V AC)
Efficiency	71...85 %, depending on model
Idle consumption	≤0.5 W, except TR60M05
Hold up time	App. 8 ms / 115 V AC
Protection	Short circuit protection: Switch off with auto recovery Overvoltage protection
Line regulation	±1 % at rated load and input voltage change of 100...240 V AC
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, CB, CE
Operating temperature	0...+60 °C
Derating	In the range of +40...+60 °C, 2,5 % / °C
MTBF	>320 000 h according to MIL-HDBK-217F at +25 °C
Storage temperature	-20...+85 °C
Operating humidity	10...93 % RH, non-condensing
Dimensions (WxDxH)	58 x 132 x 30.5 mm ±0.5 mm
Weight (net)	0.345 kg

Product specific data	
ECO standard	CEC level IV (except TR60M05), CEC level V on request
Max. operation height	3000 m

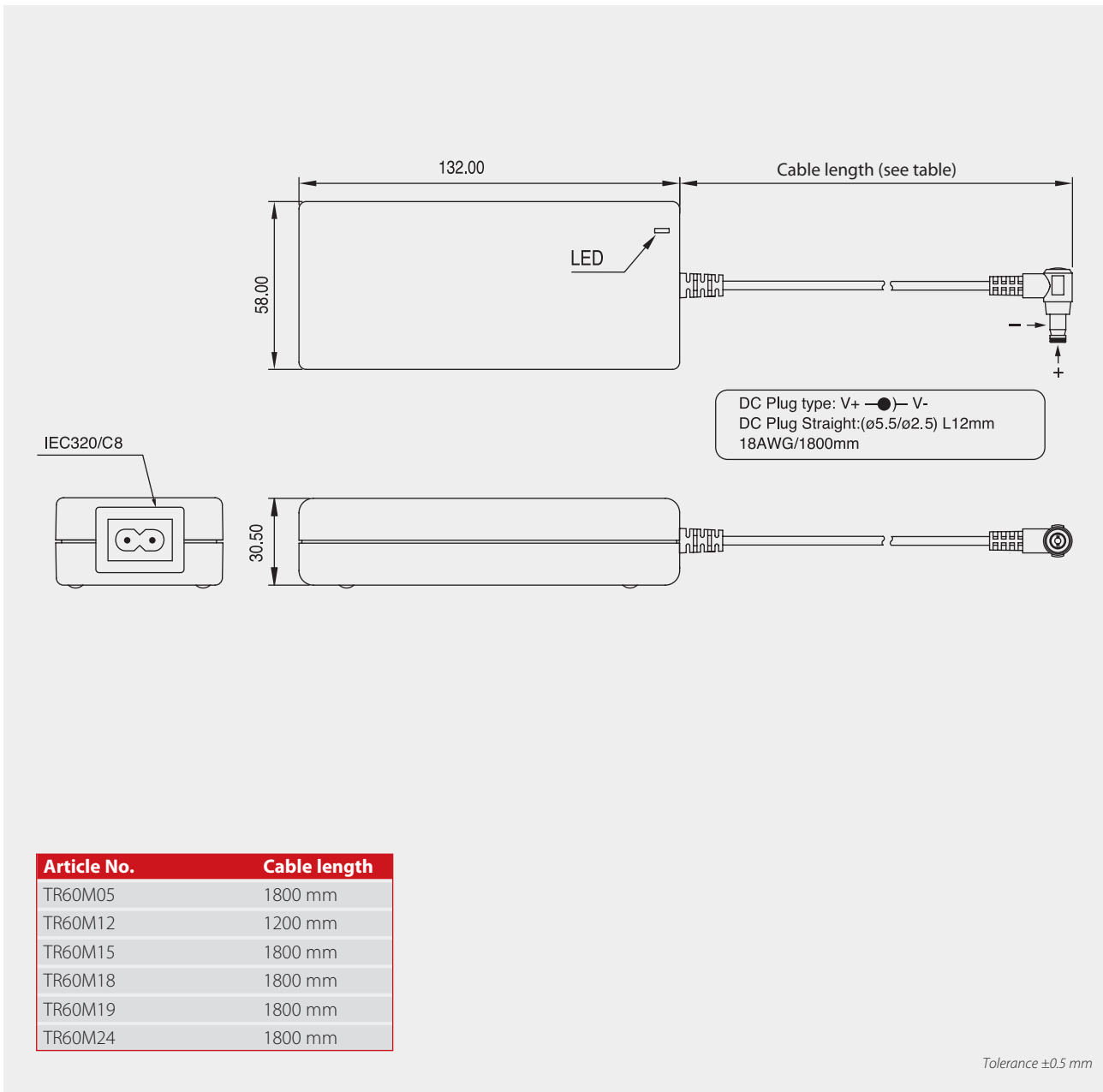


Article No.	Output voltage	Output current min	Output current rated load	Ripple & Noise	Efficiency
TR60M05	+5 V	0 A	6 A	<50 mV _{SS}	71 %
TR60M12	+12 V	0 A	5 A	<120 mV _{SS}	83 %
TR60M15	+15 V	0 A	4 A	<150 mV _{SS}	84 %
TR60M18	+18 V	0 A	3.33 A	<180 mV _{SS}	84 %
TR60M19	+19 V	0 A	3.15 A	<190 mV _{SS}	85 %
TR60M24	+24 V	0 A	2.5 A	<240 mV _{SS}	85 %

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 (TR60M05 ±4 %).

The final assembly has to comply with the valid EMC and safety standards.

Drawing TR60M



Article No.	Cable length
TR60M05	1800 mm
TR60M12	1200 mm
TR60M15	1800 mm
TR60M18	1800 mm
TR60M19	1800 mm
TR60M24	1800 mm

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