

BET-1500

140/150 Watt

- ✓ Desktop adapter for industrial applications
- ✓ Only with 105°C high quality capacitors
- ✓ Very high reliability (MTBF)
- ✓ Energy efficiency level VI and CoC Tier 2 compliant
- ✓ Very high efficiency
- ✓ Low standby consumption <0.15 W
- ✓ Wide temperature range up to +65 °C
- ✓ International approvals



Desktop adapter

Technical data	
Input voltage	90...264 V AC, active PFC
Input frequency	47...63 Hz
Input current	<2.5 A (90 VAC)
Inrush current	150 A max (264 VAC)
Efficiency	App. 90...93 % (230 VAC and full load)
Idle consumption	≤0.15 W
Hold up time	>16 ms (115 VAC)
Protection	Short circuit protection: Switch off with auto recovery Overtemperature protection: Switch off, restart after disconnection from the mains Overvoltage protection: 110...130 %, restart after disconnection from the mains Overload protection: 110...160 %, restart after disconnection from the mains
Insulation voltage	Input/output 4242 VDC, Input/FG 2121 VDC
Line regulation	≤±1 %
Load regulation	≤±3 %
Leakage current	<0.7 mA earth leakage current (264 VAC / 60 Hz)
Safety / EMC	TÜV EN62368-1, UL62368-1, CCC, CE
Temperature	Operating: -30...+65 °C / Storage: -30...+85 °C
Derating	In the range of +40...+65 °C, 2 % / °C
Max. operation altitude	2000 m
MTBF	>163 000 h according to MIL-HDBK-217F at +25 °C
Humidity	Operating: 10...85 % RH, non-condensing / Storage: 10...90 % RH, non-condensing
Dimension (WxDxH)	85 x 170 x 44 mm ±0.5 mm
Weight (net)	0.8 kg

Product specific data	
Energy efficiency level	DoE/CEC/GEMS/NRCan level VI, CoC 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.	Output voltage	Output current		Ripple & Noise	Efficiency
		min	Rated load		
BET-1512	+12 V	0 A	11.7 A	120 mV _{SS}	app. 91 %
BET-1519	+19 V	0 A	7.9 A	190 mV _{SS}	app. 92 %
BET-1524	+24 V	0 A	6.2 A	200 mV _{SS}	app. 93 %

*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. Ripple and Noise can deviate in the moment of restart when the ambient temperature is below 0°C.
The final assembly has to comply with the valid EMC and safety standards.*

Optional Accessories

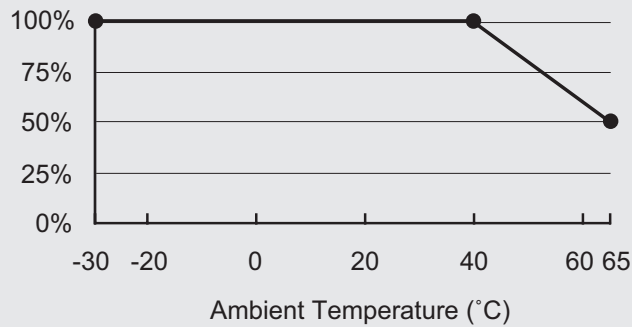
▷▷▷ For detailed information please visit our website www.bicker.de and refer to the article number.



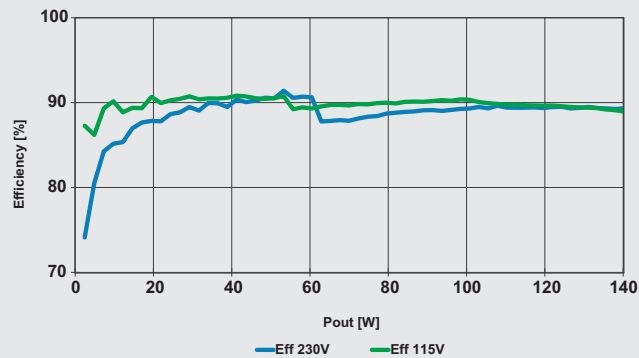
Desktop adapter

Derating and efficiency curves

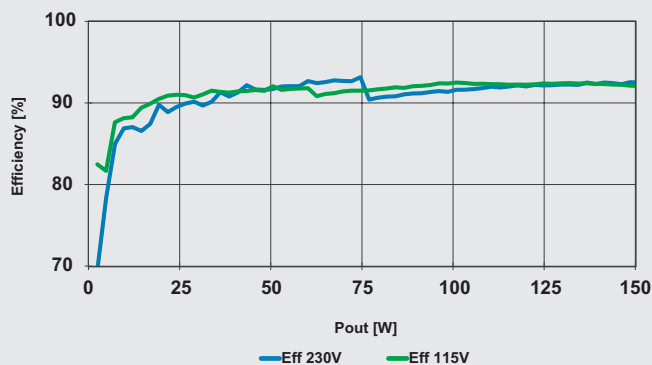
Derating
(natural convection)



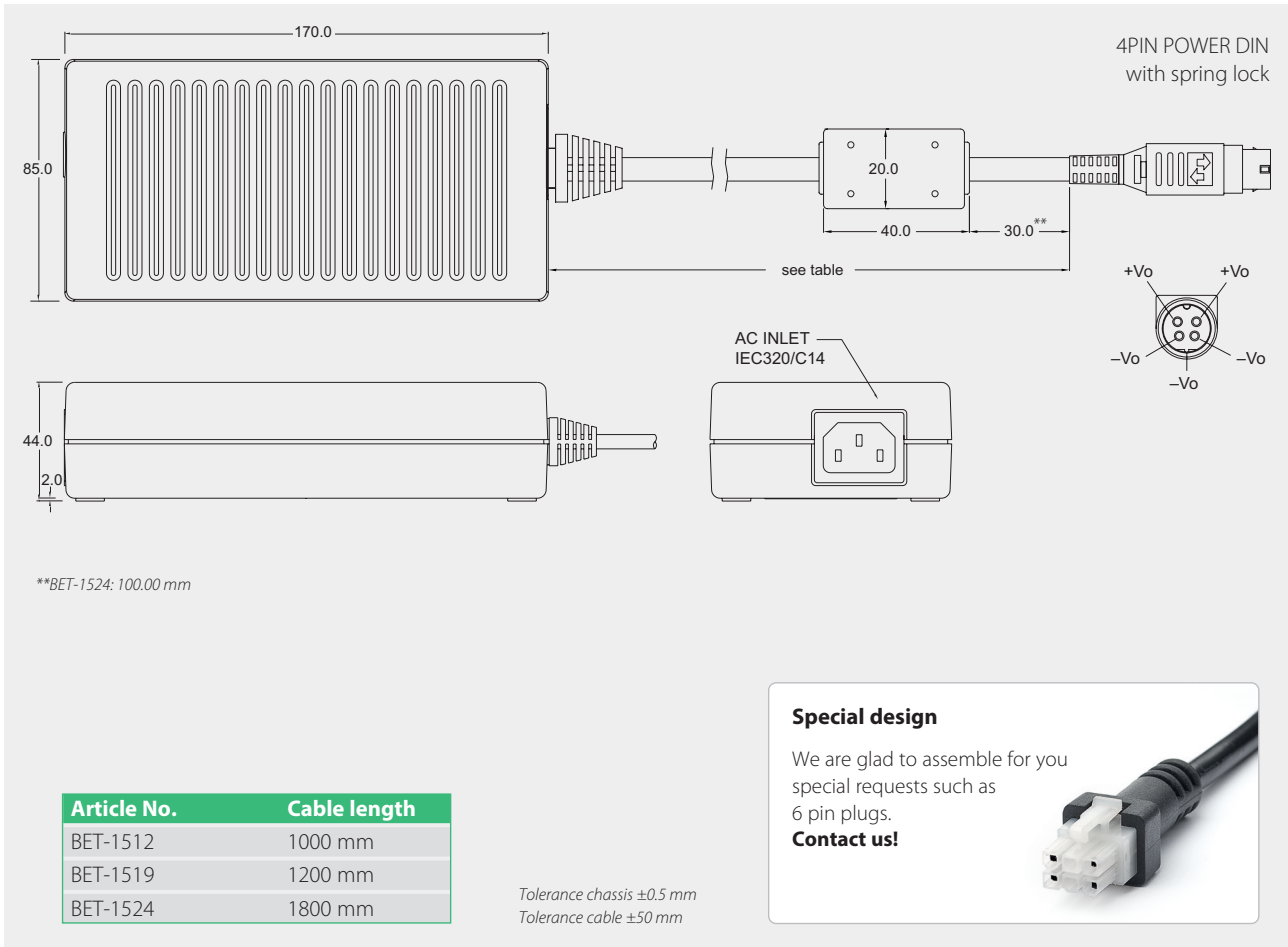
Efficiency curve 12V



Efficiency curve 24V



Drawing BET-1500



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