

MV1E-5350V-B1

350 Watt

- Low noise
- Complies with IEC/EN60601-1 – 3rd Edition
- Efficiency >81 %

The MV1E-5350V-B1 was designed for medical PC applications in a 1U chassis. With its output power of 350 W it is the perfect solution for image processing systems with powerful processors and graphic boards. It complies with the IEC/EN 60601-1 and UL 60601-1 standards. The circuit design is distinguished by a very high efficiency of more than 81 % over the complete range of performance. Thus, minimal noise development is achieved by a temperature-controlled fan regulation.



Technical data	
Input voltage	90...264 V AC, active PFC
Input frequency	47...63 Hz
Input current	6 A (115 V AC) / 3 A (230 V AC)
Inrush current	15 A (115 V AC) / 30 A (230 V AC)
Efficiency	81...85 % (115 V AC)
Hold up time	>16 ms (115 V AC), 24 ms (230 V AC), full load
Power-Good-Signal	Switch on delay 100...500 ms / Switch off delay 1 ms
Protection	Short circuit protection: At each output, switch off / +5 V _{sb} , auto-recovery Overload protection: 110...160 %, Switch off Overvoltage protection: +3.3 V (+3.6...+4.3 V), +5 V (+5.6...+6.5 V), +12 V (+13.2...+15 V)
Insulation voltage	Input / Chassis 1500 V AC (1x MOPP) Input / Output 3000 V AC (2x MOPP)
Earth leakage current	<200 µA / 240 V AC
Safety / EMC	TÜV (IEC/EN60601-1 3rd Edition), UL (UL60601-1), CE
Temperature	Operating: -10...+50 °C / Storage: -40...+80 °C
Derating	From +20...+50 °C, 1 W / K (+3.3 V, +5 V, +12 V, +5 V _{sb}) From +20...+50 °C, 0,01 A / K (-12 V)
Max. operation altitude	3000 m
MTBF	>138600 h according to MIL-HDBK-217F at +25 °C, without fan
Humidity	Operating: 10...85 % RH / Storage: 10...90 % RH, non-condensing
Dimensions (WxDxH)	100 x 260 x 40,5 mm ±0,5 mm
Weight (net)	1,5 kg

Article No.	Output voltage	Output current		Load regulation	Ripple & Noise
		min	max		
MV1E-5350V-B1	+3.3 V	0 A	20 A	±5 %	50 mV
	+5 V	0 A	20 A	±5 %	50 mV
	+12 V	0 A	25 A	±5 %	120 mV
	-12 V	0 A	1 A	+13 / -7 %	120 mV
	+5 V _{sb}	0,1 A	2 A	±5 %	50 mV

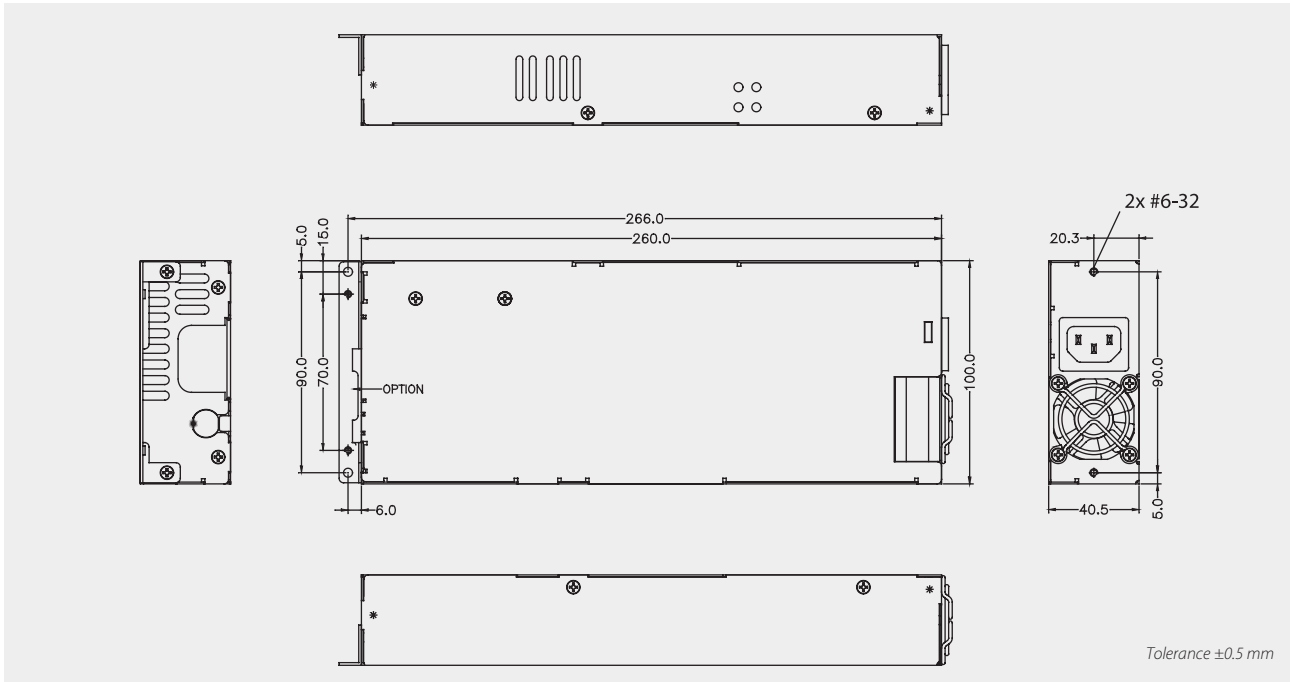
Max. output power is 350 W. Combined output load at +3.3 V and +5 V must not exceed 130 W, combined output load at +3.3 V, +5 V, and +12 V must not exceed 340 W. Ripple and noise was measured by a 20 MHz bandwidth limited oscilloscope with connected 100 µF electrolytic capacitor and 0.1 µF ceramic capacitor at each output. During a cross regulation test at -12V we recommend to keep the channel with higher output load at 80 % of its max. power and the channel with lower output load at 20 % of its max. power.

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.

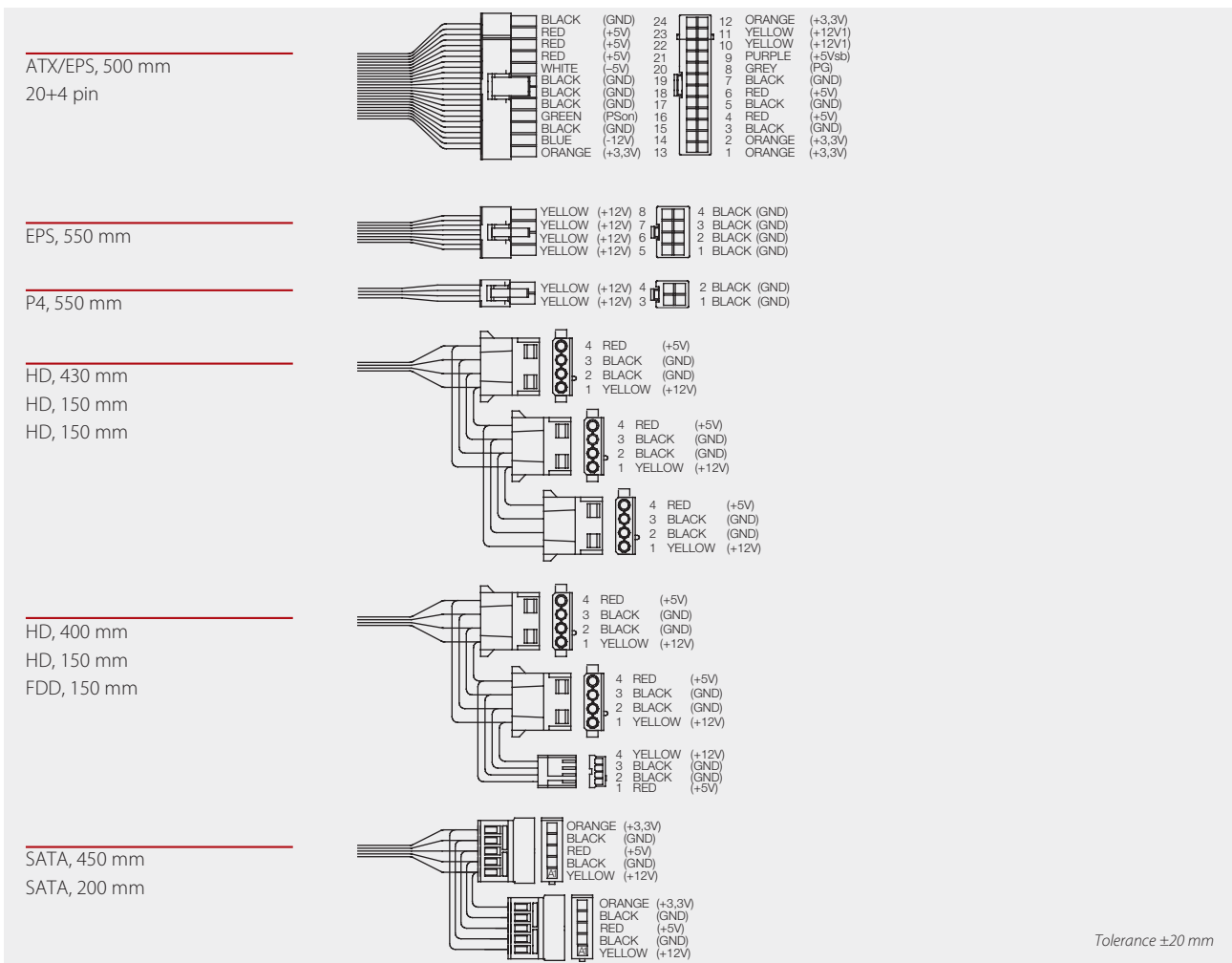
Optional accessory ▷▷▷ For detailed information please visit our website www.bicker.de and refer to the article number.

Article No.	Description
X1-132	Power cord with European IEC-60320-C13 connector

Drawing MV1E-5350V-B1



Cable harness MV1E-5350V-B1



Specification is subject to change without notice. Errors excepted. Status as at: 21.12.2015