P1S-6300V

300 Watt

- **Efficiency up to 83 %**
- **Silent due to fan regulation**
- **TÜV approval up to +50 °C**

Thanks to its high efficiency and a temperature-regulated fan the noise produced by the P1S-6300V is minimal. Its robust construction ensures a long service-life under industrial operating conditions. All equipped components are of high-grade quality and designed for an ambient temperature of +50 °C. The regulation properties of the P1S-6300V are very good. Upon request the P1S-6300V is also available with a special cable harness.

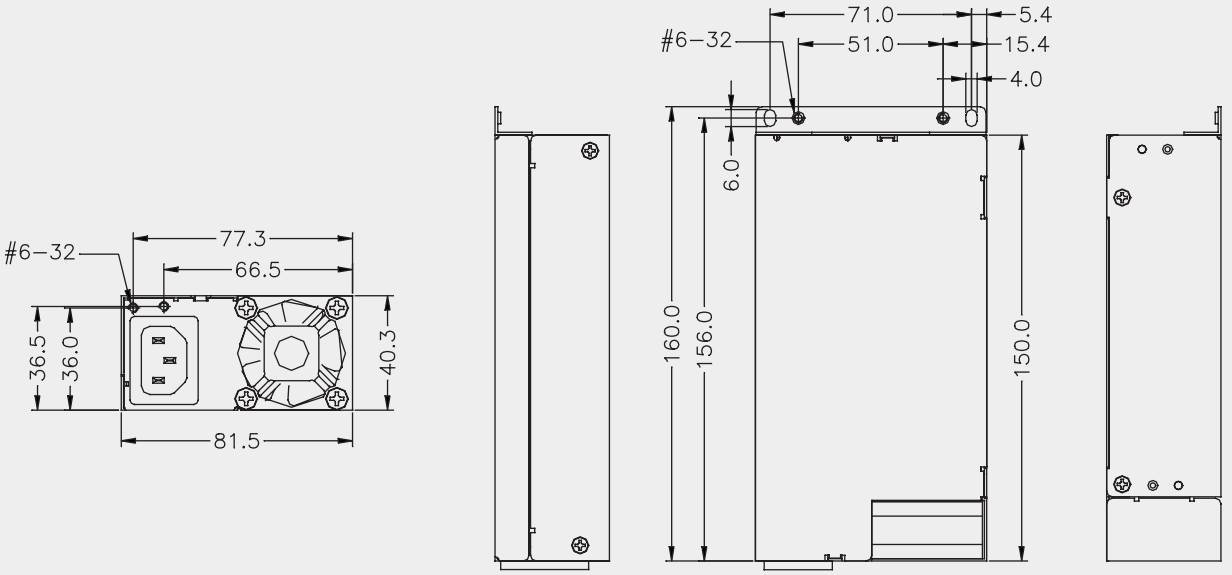
Technical data	
Input voltage	90…264 V AC, active PFC
Input frequency	47…63 Hz
Input current	4.5 A (115 V) / 2 A (230 V)
Inrush current	70 A (115 V AC) / 140 A (230 V AC)
Efficiency	≥80…83 %, 230 V AC
Hold up time	>16 ms
Power-Good-Signal	Switch on delay 100…500 ms Switch off delay 1 ms
Protection	Short circuit protection: +3.3 V, +5 V, +12 V, switch off / -12 V, +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)
Earth leakage current	<3.5 mA, 115 V AC / 230 V AC
Safety / EMC	TÜV, UL, CE
Operating temperature	0…+50 °C
MTBF	140 000 h at +25 °C, with fan
Storage temperature	-20…+80 °C
Operating humidity	20…80 % RH, non-condensing
Dimensions (W x D x H)	150 x 81.5 x 40.3 mm, ±0.5 mm
Weight (net)	1.3 kg

Article No.	Output voltage	Output current min	max	Load regulation	Ripple & Noise
P1S-6300V	+3.3 V	0.5 A	17 A	±5 %	60 mV
	+5 V	1 A	18 A	±5 %	60 mV
	+12 V1	0 A	8 A	±5 %	120 mV
	+12 V2	2 A	16 A	±5 %	120 mV
	-12 V	0 A	0.3 A	±10 %	120 mV
	+5 V_{sb}	0.1 A	2.5 A	±5 %	60 mV

Max. output power is 300 W, combined at +3.3 V and +5 V 120 W. Ripple and noise was measured by a 20 MHz oscilloscope with connected 100 µF electrolytic capacitor and 0.1 µF ceramic capacitor at each output.
This power supply is for assembly purposes only and it must not be operated in unassembled condition. The final assembly has to comply with the valid EMC standards.

Bicker Elektronik GmbH | 86609 Donauwörth | Germany
Tel. +49 906 70595-0 | info@bicker.de | **www.bicker.de**

Drawing P1S-6300V



Tolerance ±0.5 mm

Cable harness P1S-6300V

P4/EPS, 370 mm
4+4 Pin

YELLOW	(+12V)	8	4	BLACK	(GND)
YELLOW	(+12V)	7	3	BLACK	(GND)
YELLOW	(+12V)	6	2	BLACK	(GND)
YELLOW	(+12V)	5	1	BLACK	(GND)

6 Pin PCI Express, 400 mm

BLACK	(GND)	6	3	YELLOW	(+12V2)
BLACK	(GND)	5	2	YELLOW	(+12V2)
BLACK	(GND)	4	1	YELLOW	(+12V2)

ATX/EPS, 350 mm
20+4 Pin

BLACK	(GND)	24	12	ORANGE	(+3,3V)
RED	(+5V)	23	11	YELLOW	(+12V1)
RED	(+5V)	22	10	YELLOW	(+12V1)
RED	(+5V)	21	9	PURPLE	(+5Vsb)
N.C.		20	8	GREY	(PG)
BLACK	(GND)	19	7	BLACK	(GND)
BLACK	(GND)	18	6	RED	(+5V)
BLACK	(GND)	17	5	BLACK	(GND)
GREEN	(PSon)	16	4	RED	(+5V)
BLACK	(GND)	15	3	BLACK	(GND)
BLUE	(-12V)	14	2	ORANGE	(+3,3V)
ORANGE	(+3,3V)	13	1	ORANGE	(+3,3V)
				ORANGE	(+3,3V REMOTE SENSE)

HD, 450 mm
HD, 150 mm
FDD, 150 mm

4	RED	(+5V)
3	BLACK	(GND)
2	BLACK	(GND)
1	YELLOW	(+12V2)

4	RED	(+5V)
3	BLACK	(GND)
2	BLACK	(GND)
1	YELLOW	(+12V2)

4	YELLOW	(+12V2)
3	BLACK	(GND)
2	BLACK	(GND)
1	RED	(+5V)

SATA, 350 mm
SATA, 150 mm

ORANGE	(+3,3V)
BLACK	(GND)
RED	(+5V)
BLACK	(GND)
YELLOW	(+12V2)

ORANGE	(+3,3V)
BLACK	(GND)
RED	(+5V)
BLACK	(GND)
YELLOW	(+12V2)

Tolerance ±20 mm