

100 Watts Single Output with active PFC

INPUT SPECIFICATIONS

All specifications are typical at nominal input, full load.

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Input Voltage	90Vac – 264Vac
Input Frequency	47Hz– 63Hz
Input Current	<1.5A
Protection	Internal Primary Current Fuse Inrush Limiting



OUTPUT SPECIFICATIONS

Output Voltage	See Chart
Efficiency	≥84-88%
Protection	Over Load Over Power Short Circuit
Ripple and Noise	150mV-200mV
Hold-Up Time	≥12mS (230Vac input, Full load)
Transient Response	0.5mS for 50% Load Change(typ)
Load Regulation	±1 - 2%
Leakage Current	Input-output: ≤0.25mA Input-PG: ≤3.5mA

FEATURES

- Built-in Active PFC function, PF>0.93
- Withstand 300VA surge input for 5 secs.
- Output protections: OLP/OVP/SCP/OTP/OPP
- Wide operating ambient temp (-20°-60°),
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test
- Suitable for critical application
- 3 years warranty

GENERAL SPECIFICATIONS

MTBF(MILHDBK-217F)	More than 200,000Hrs (25°C, Full load)
Withstand Voltage	Primary-Secondary 3,0KVac ≤10mA. Primary-PG:1.5KVac; ≤10mA. Secondary-PG:0.5KVDC; ≤10mA
EMI Conduction & Radiation	Compliance to EN55022, Class B
Harmonic Current	Compliance to EN61000-3-2, class A
EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; heavy industry level
Safety Approvals	UL60950-1 2 ND Ed; IEC 60950-1; 2005(2 ND Ed); EN60950-1:2006

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C~+60°C with derating
Storage Temperature	-30°C~+85°C
Cooling.	Cooling by free air convection
Operating Humidity	20 – 90% RH No condensing
Storage Humidity	10 – 95% RH

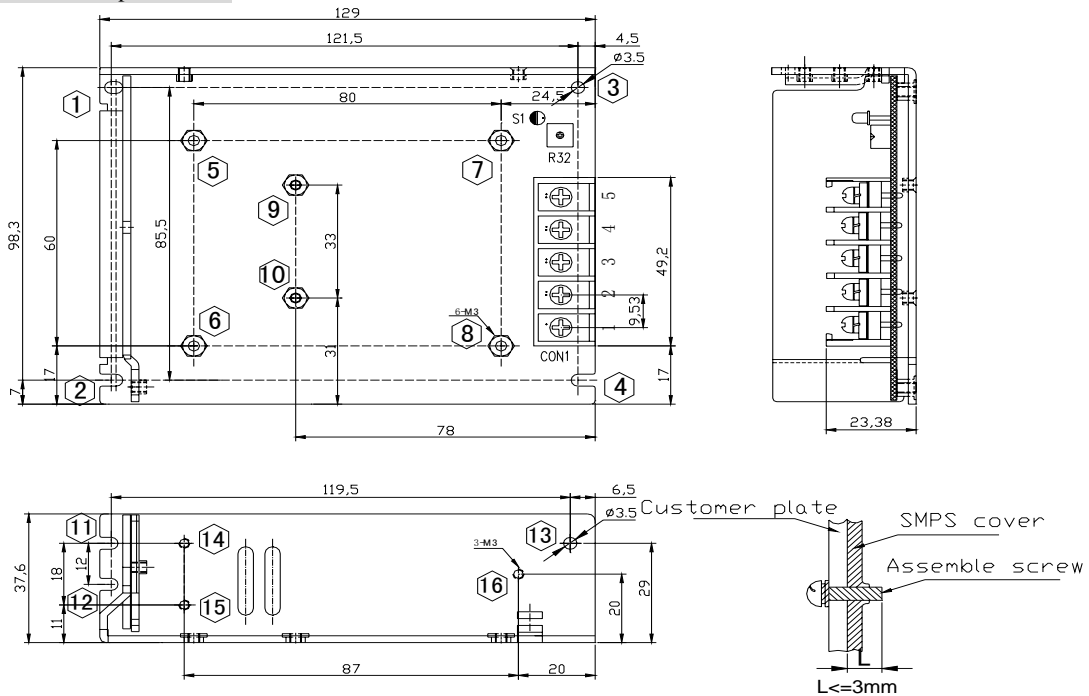
MECHANICAL SPECIFICATIONS

Case Dimension	L129 x W98.3 x H37.6 mm
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Model Number	Output Voltage	Output Current	Max Output Power
PKF-100-5	5.0V	20.5A	100.0W
PKF-100-12	12.0V	8.5A	102.0W
PKF-100-24	24.0V	4.2A	100.8W
PKF-100-48	48.0V	2.2A	105.6W

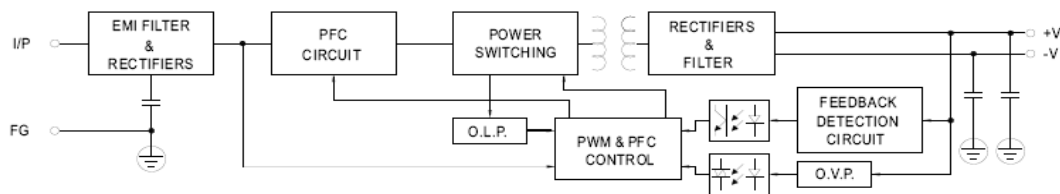
Mechanical Specification

Unit: mm (Tolerance is ± 1 mm)



Pin1---Pin5: L N GND -V +V

Block Diagram



Derating Curve

