

150 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
Power Factor	0.98(115VAC) 0.95(230VAC)
Input Current	<2A
Protection	Internal Primary Current Fuse Inrush Limiting



OUTPUT SPECIFICATIONS

Output Voltage	See Chart
Efficiency	≥86-88%
Protection	Over Load/Voltage/Short Circuit
Ripple and Noise	≤100mV
Hold-Up Time	≥10mS (220Vac input, Full load)
Transient Response	0.5mS for 50% Load Change(typ)
Load Regulation	±1 - 2% (typ)
Leakage Current	Input-output: ≤0.25mA Input-PG: ≤3.15mA

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

FEATURES

- Built-in Active PFC function, PF>0.95
- Withstand 300VA surge input for 5 secs.
- Output protections: OLP/OVP/SCP/OTP/OPP
- Wide operating ambient temp (-25°-70°),
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test
- Suitable for critical application
- 3 years warranty

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C~+70°C with derating
Storage Temperature	-30°C~+85°C
Cooling.	Convection
Operating Humidity	20 – 90% RH No condensing
Storage Humidity	10 – 95% RH

MECHANICAL SPECIFICATIONS

Case Dimension	L160 x W98.3 x H38 mm
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Model Number	Output Voltage	Output Current	Max Output Power
PKF-150-12	12.0V	12.5A/12.5A	150.0W
PKF-150-15	15.0V	10.0A/10A	150.0W
PKF-150-24	24.0V	6.3A/6.3A	151.2W
PKF-150-48	48.0V	3.2A/3.2A	153.6W

Mechanical Specification Unit: mm (Tolerance is $\pm 1\text{mm}$)

Pin1--Pin7: L N GND -V -V +V +V

Customer plate, SMPS Cover, Assemble Screw, L ≤ 4mm

Block Diagram

Derating Curve

Ambient Temperature (°C)	Load (%)
-20	100
0	100
10	100
20	100
30	100
40	100
50	75
60	50
70	50