

FPK SERIES

Battery Charger / Power Supply: 1000 -2000 Watts



Features

- Universal input: 90 ~ 264VAC with PFC
- AC Input via Screw terminals or IEC socket option
- Low profile 46mm height
- 1U x 19in Rack mounting option (**FPK-Rack Option**)
- 24V, 32V and 48V output options
- Hot-swap capability
- Parallel operation with power share
- Build-in Redundancy diodes for **N+1** applications
- High efficiency 88%
- AC, DC Fail Alarms
- LED front panel: AC OK, DC OK, DC Fail
- EN60950 safety approved modules
- Suitable for use as a combined power supply and **Battery Charger** in high-end DC Back Up systems

Specifications:

Input Voltage	90 ~ 264VAC (120~360VDC)	Indicators	LED'S on front panel: AC OK, DC OK, DC Fail
Frequency	47~63Hz ((440Hz with reduced PFC)	Alarms	Voltage free relay contacts <ul style="list-style-type: none">• AC Power Fail• DC Fail
Leakage Current	1.1mA at 230VAC	Signals - Optional	<ul style="list-style-type: none">• +12V Auxiliary @ 0.25A• Power Share• Over Temperature• Remote ON / OFF
Input Current	12A / 6A (110 / 230vac) at 1000 watt power	Temp. Stability	0.1% of rated Vout for 8Hrs after 30min warm-up
Power Factor	0.98 at nominal input	Temp. Coefficient	0.2% per °C
Efficiency	Model dependent 83~88%	Operating Temp	0°C to +50°C at 100% load. Derate 2.5% per °C to +70°C
Immunity	EN61000-4-2, -3, -4, -5, -6, -11	Isolation	Input-Output: 3000VAC Input-Chassis: 2000VAC Output-Chassis: 500VDC
EMC	EN55022 Level B Conducted & Radiated	Cooling	Two internal fans (front to back) with variable speed
Hold Up time	20mS at rated input	Humidity	10 ~ 90% RH non-condensing
Output Voltage	24V (21.5-29.0) 32V (28.8-38.3) 48V (43-58)	Safety	UL60950, EN60950
Output Power	500 ~ 1000 watts	Input Connector	Standard model: Screw terminals Option E: IEC Input Socket with power cord
Line Regulation	±0.4%	Output Connector	DC Output & Alarms: Screw Terminals
Load Regulation	±1.0%	Dimensions	365 x 168 x 46mm
Ripple & Noise	1.0% maximum of Vout pk-pk	Weight	3.5kg
Remote Sense	N/A		
Parallel Operation	Yes with power share		
Overload Protection	Constant current limiting with auto recovery set at approx 105~120% of rating		
Over voltage Protection	Output shuts down when temperature exceeds safe limits, with auto recovery		

Front view

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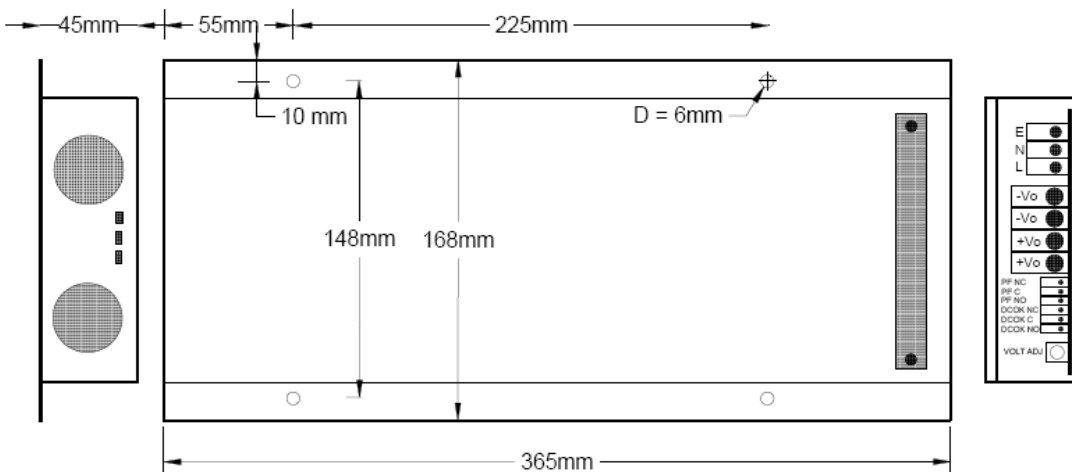
Model Power Supply	Output		Power W
	V	A	
FPK1000-24-PU	24V	40A	1000W
FPK1000-32-PU	32V	30A	1000W
FPK1000-48-PU	48V	20A	1000W
1U x 19in Rack Mount Option			
FPK-RACK-1/24	24V	40A	1000W
FPK-RACK-1/32	32V	30A	1000W
FPK-RACK-1/48	48V	20A	1000W
FPK-RACK-2/24	2 x 24V	80A	2000W
FPK-RACK-2/32	2 x 32V	60A	2000W
FPK-RACK-2/48	2 x 48V	40A	2000W

- FPK-RACK-2 (able to take 2 modules)

Model Battery Charger	Output		Power W
	V	A	
FPK1000-24-BC	27.0V	40A	1000W
FPK1000-32-BC	36.0V	30A	1000W
FPK1000-48-BC	54.0V	20A	1000W
1U x 19in Rack Mount Option			
FPK-RACK-1/24BC	27.0V	40A	1000W
FPK-RACK-1/32BC	36.0V	30A	1000W
FPK-RACK-1/48BC	54.0V	20A	1000W
FPK-RACK-2/24BC	2 x 27V	80A	2000W
FPK-RACK-2/32BC	2 x 36V	60A	2000W
FPK-RACK-2/48BC	2 x 54V	40A	2000W

- FPK-RACK-2 (able to take 2 modules)

Mechanical Outline. FPK



FPK- RACK Options

The FPK series power supplies / Battery Chargers are also available in a 1U x 19in x 365mm rack mount unit.

- Rack suitable for One or two 1000W units.
- Rack can supply up to 2KW in 24V, 32V or 48VDC
- Rear connections for AC, DC and Alarms via screw terminals. Other options on request.
- Modules are inserted / removed without the need to remove rack or disconnect connections / cables.
- Voltage Trim potentiometer for each module in rack

DC OK N/O	DC OK Com	DC OK N/C	PF N/O	PF Com	PF N/C	+VO	+VO	-VO	-VO	L	N	E
DC Fail Alarm			Power Fail Alarm			DC Output				AC Input		

Connector details for each output board