

# 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:

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

Front view

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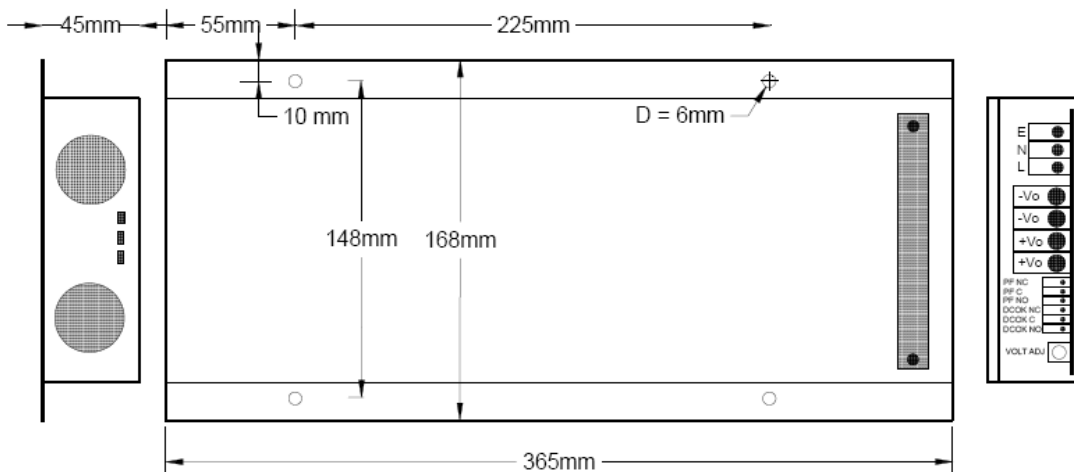
Model Power Supply	Output		Power W
	V	A	
FPK1000-24-PU	24V	40A	1000W
FPK1000-32-PU	32V	30A	1000W
FPK1000-48-PU	48V	20A	1000W
<b>1U x 19in Rack Mount Option</b>			
FPK-RACK-1/24	24V	40A	1000W
FPK-RACK-1/32	32V	30A	1000W
FPK-RACK-1/48	48V	20A	1000W
FPK-RACK-2/24	2 x 24V	80A	2000W
FPK-RACK-2/32	2 x 32V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