

FlexCombi 30 Rectifier Inverter System

Rating: 30A Rectifier with 1250VA Inverter System

Input / Output Voltage: 230VAC / 48VDC

Configuration: Rackmount

PowerHub FlexCombi Rectifier Inverter Power System is widely deployed in the Telecom environment today. The product is a new generation of "Green & Energy Saving" system aiming at outdoor low power mobile telecom power market, meeting the trend of telecom base station development, saving construction cost and shortening time. The system is highly adaptable with environment, features with wide operating temperature range, meeting the demand of high level users.

Applications:

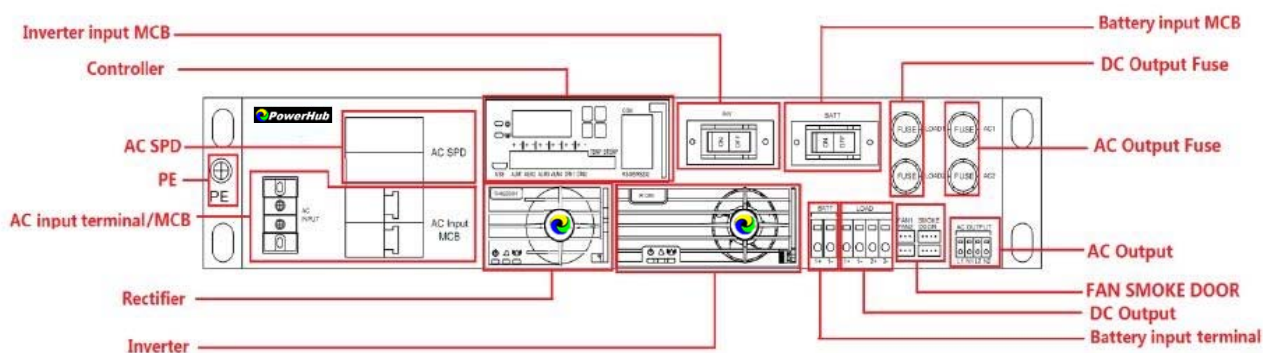
- Telecommunications
- Air Conditioner
- Microwave Communication Equipment
- Computer Equipment

PowerHub FlexCombi Rectifier Inverter Power System consists of the monitoring module, rectifier modules, inverter module and distribution unit. It can support up to 30A of DC loads and 1250VA of AC loads.

Item	Description		Note
Monitoring Module	FlexCombi Monitoring Module		1qty
Rectifier Module	FlexCombi 2000 Rectifier Module		1qty
Inverter Module	FlexCombi Inverter Module		1qty
Distribution Unit	AC	Input: Single Phase 220V	MCB
		AC Distribution 5Ax2: 5A x 2	Fuse type
	DC	Load Distribution: 20A x 2	Fuse type
		Battery Distribution 30A x 1	MCB

Product Highlights:

- Green & environment friendly. With excellent filtering and shielding process, super low electromagnetic radiation; Within wide load range, the power factor over 0.99, input harmonic current component below 5%, input voltage range 85~290Vac. The system noise is below 60dB;
- High efficiency energy saving, able to operate with high efficiency at full load;
- More reliable operation. With complete test, control, alarm and protection functions,
- Perfect surge protection performance, the product reliability and adaptability is highly improved;
- Configured with 19" standard power rack, the rectifier is hot swappable, complete frontal operation, making the operation and maintenance safer, quicker and more convenient;
- Perfect battery management function. With functions of temperature compensation, battery protection, charging current limit and battery capacity estimation;
- CAN bus distributed digital control, intelligent network design, providing RS485/RS232 telecom port and dry contact alarm port, flexible network enables remote monitoring with unattended operation;



MODEL	FlexCombi 30 Rectifier Inverter
AC DISTRIBUTION	
Input Voltage	85V-300VAC (Nominal: 220/230VAC)
Frequency	45-66Hz
Output Voltage	230VAC
Output Frequency (Hz)	50Hz / 60Hz
Output Power (Inverter)	1250VA
Power Factor	0.99
Inverter Efficiency (%)	>91%
Current Distortion	≤5% @ 100% Load
Protection	AC overvoltage, under-voltage protection; DC overvoltage, under-voltage, current limit., short circuit protection, battery and rectifier over temperature protection; automatic or artificial restoration happens after the over-voltage, over-current, under-voltage or over-temperature disappears.
DC DISTRIBUTION	
Rated Output Voltage	-53.5V (-42 to -58VDC Adjustable)
System Output Current	30A Max
Rectifier Efficiency (%)	>92%
System Load Regulation	≤±0.5%
Voltage Regulation	≤±0.1%
System Stability Precision	≤±0.6%
Current Sharing	≤±2%
Phone Balance Weight Noise	≤2mV (@230VAC; Full Load)
Ripple / Noise	≤200mVp-p / ≤ 2mVrms (Psophometric)
Output Distribution	Load distribution:20×2
Battery Distribution	Battery distribution : 30Ax1
Battery Low Voltage Alarm and Protection	When DC voltage is adjusted below battery protection threshold value and there is no AC input, the battery protection alarm will last for 1 minute before DC contactor cut off
MONITORING	
Hot swappable Rectifier	Modules are able to hot swap without influencing system operation
Soft start time	3s to 10s
Remote Operation	Dry Contact, Optional: RS232 / RS485 / SNMP
Visual Indications	Green LED – System ON Yellow LED – Minor Alarms Red LED – Major Alarms
Alarms Relays	4 Relays
Digital Inputs	2 Options (for Monitoring of External Equipment and Battery)
Alarms	AC over voltage/under voltage, DC voltage/under voltage, Module fault and Over temperature
OTHER SPECIFICATIONS	
Operating Temperature	-40 to +60°C
Storage Temperature	-40 to +70°C
Insulation Resistance	Electric circuit to insulation resistance ≥2MΩ (500V mega meter)
Insulation Strength	Input to output: 3535VDC @1min&leak current ≤30mA Input to enclosures: 3535VDC @1min&leak current ≤30mA Output to enclosures: 1414VDC @1min&leak current ≤30mA
System leak current	≤3.5mA (220VAC input)
Grounding Performance Requirement	The system with operating ground and protection ground. With clear mark. The resistance between the enclosures of distribution and all palpable metal components and grounding nut is not more than 0.1Ω
AC Lightning Protection (SPD)	40kA, 8/20μs
EMC	In accordance with YD/T 983-1998 Telecom Power System EMC Limit Value and Test Method. CLASS A
Noise	≤60dB (A)
MTBF	500000 hours
Humidity	5%~95%RH (40±2°C, no condensation)
Dimension (WxDxH)	440.6x344x88(mm) 2U
Weight	19kg

* Specifications are subject to change without prior notice

