

-G4- DC UPS 72kW

Compact, efficient and intelligent
Includes: Dual Converter™ technology
-With Integrated batteries-

Description

The -G4- DC UPS is designed to support the new generation of high efficient data centers.

By using higher voltage and reducing the DC/AC conversions, this DC power system gives higher energy efficiency, better reliability and higher power quality.

The Dual Converter™ technology increases energy efficiency at low loads and exceed the new 80 PLUS "Ruby" certification.

With the option of the NetTracker® PV solar energy can seamlessly be integrated into the UPS.

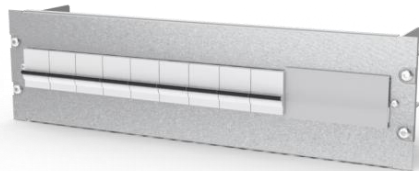
Features

- Dual Converter™ for highest energy efficiency
- Hot-swappable power modules
- NetTracker® PV MPPT modules fully integrated
- Remote monitoring via TCP/IP
- Space saving front access only

Daisy-Chain multiple cabinets for Mega-Watt Installations!



System Components



Integrated distribution module

Up to 24 - Loads (10-125A)

- Optional RCD function (Residual Current Disconnect)
- (Multiple configurations available)



Battery fuse module / Power Control Unit

The battery fuse module is integrated with an intelligent power control unit.

Features:

- 200A Battery fuses
- Remote battery management and testing
- Embedded Web-server
- TCP/IP protocols (no specific software needed)
- Alarm monitoring
- Programmable alarms and logic functions
- Proactive off-site monitoring and control
- LCD Display



Power shelf

The power system utilizes plug-in power modules. Power can be rectifiers or MPPT PV converters.

Features:

- Modbus control.
- Thermal control and shutdown.
- Input and output protection fuses.
- Current control (for Li-Ion batteries)

Configurations

Typical system configuration:

(One cabinet)

System capacity:

- 72 kW (2 power shelves)
- N+1 configuration

Battery capacity / backup time:

- 38 Ah (2x19Ah)
- ~6-10 minutes.

Input:

- 2 x 63 A / 3-pole MCB
- Max. input power: 72 kW

Output:

- 300- 400 Vdc

Mechanical dimensions:

- Cabinet: 2150 x 600 x 600 mm (HxWxD)
- Weight: ~ 500 kg
- Cable entry: Top of Cabinet

Options:

- DC/DC converters (48VDC)
- DC/AC converters (230VAC)
- Intelligent Distribution Modules (kWh metered)
- Rack PDU's and Power Strips
- Fused cable sets
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DC UPS 72kW	
Input	
Input voltage, nominal	3x 230 Vac (5 wire)
Input voltage range	195-264 Vac
Input frequency	47-63 Hz
Power Factor	0.99
Output	
Output power	72kW (180kW PV only)
Output voltage, nominal	350 Vdc (SW settable 300 - 400)
"Battery test" voltage	280 Vdc (SW settable 200 - 350)
Output polarity	+/- 350V
Minimum load	100W
Output current control	SW settable 1-14 A /module
Output protection	Fuses, MCB, Solid State protection etc.
Other technical data	
Efficiency	97% (exceeding 80 PLUS Ruby)
Fan cooled (front to back)	Redundant fans
Thermal reduction	Yes
Power module protection	SW controlled current + In- & Output fuses
Visual fault indication	Dual LEDs
Alarm output	Digital alarm to NetManager™ SW Modbus
Audible noise	<30 dBA
Safety	EN/IEC 60950, class 1
EMC	EN 61000-6-8
Operation temperature	-10°C => +55°C (Thermal reduction)
Mechanical data	
Weight	~500 kg
Width	600 mm
Height	2150 mm
Depth	600 mm
Enclosure	IP 20

*All data preliminary, subject to change

