

ESSM 48Vdc/ER1000

48Vdc **E**nergy **S**torage **S**ystem & **M**onitoring
working with external rectifier



- Smart Lithium Battery
- Nominal capacity 1000Ah
- Maximal discharge up to 3000A during 15 minutes
- Fully complies for stationary applications
- No Selfdischarging effect
- No memory effect
- Maintenance-free / Easy installation
- Embedded diagnosis in real-time
- Cycle life > 7000 times
- Safe and Reliable Lithium technology

ESSM systems bring advanced technology to the UPS technology.

The ESSM 48Vdc/ER1000 comes complete with distribution, controller and battery packs. With a maximum of 135kW output power, it is an ideal solution to meet the needs of uninterruptible power systems.

Remote setup, adjustment and control is simple with the ESSM controller. By utilizing TCP/IP technology, complete configuration and monitoring of power equipment is possible through a network web browser.



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P/N : ESSM48V_ER1000



ELECTRICAL

Power Control Unit

Voltage input: 33,6...60Vdc

Power input: 1500W

Smart Battery

Voltage output: 48Vdc

Capacity: 1000Ah

Max Output power 134,4 kW

Efficiency: > 94%

Recharge time: 35h @ 1 PCU

17h @ 2 PCU

...

PERFORMANCE / FEATURES

Indicators: Display TFT 4,3 inches

Cooling: Natural convection (Battery pack)

Fans (Power Control Unit)

Controls / Adjustments: Float and equalize voltage

Battery test voltage

High and low voltage alarms

High and low voltage shutdown

Current limit

Protection: Current limit / short circuit

Input / output fuses

Output high and low voltage shutdown

Output power limit

Input transient

Communication: Supervision through web browser

MECHANICAL

Dimensions:

Power Control Unit: 485 x 246 x 423 mm

Battery pack: 910 x 1125 x 360 mm

Cell: 560 x 130 x 360 mm

Weight:

Power Control Unit: 25 kg

Battery pack: 14 x 41 kg

ENVIRONMENTAL

Temperature:

Operation: 0 to 40°C

Storage: -20 to 45°C

Humidity:

< 80%

Elevation:

-500 to 2000m

AGENCY COMPLIANCE

The ESSM48V_ER1000 is designed to meet the following :

Safety:

CSA C22.2 No 60950-1-03

UL 60950-1 1st edition

CE marked

IEC/EN 60950-1

IEC 62619

UN 38.3

IEC/EN 62133

EMC:

ETSI 300 386

Emissions: EN 55022 Class B

EN 61000-3

Immunity: EN 61000-4

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