

# NCore® LITE



**8** Output  
ports  
**1600** Watt  
max load  
**10** Ampere  
charger  
**OUT** Voltage  
selection  
**HA** Priority  
system

## Active Modular Energy System 1600W

### Active Power and Control

The processors on board the NCore Lite constantly monitor the operating status and all the parameters of voltage, absorption, temperature and battery charge status. The software operates proactively by analyzing the applied loads and intervening to ensure maximum operating life for the priority devices.

### All in 1 Rack Unit

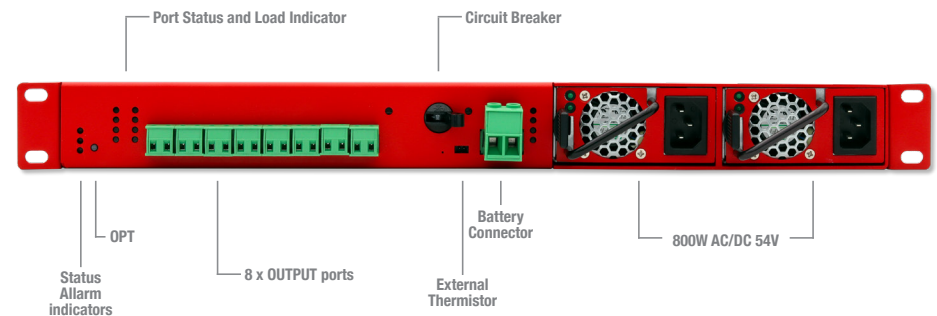
All the functionality is contained in a single rack unit.

### Hi Speed Switch

All actuators and protection diodes have been replaced with low resistance mosfets ensuring instant switching times, efficiency and minimum heat dissipation.

### Dual Processor

NCore Lite is equipped with 2 processors. One is dedicated to the monitoring and operation of the hardware part, the other is used for front-end management. This division makes the system immune from attacks from outside.



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Smart solutions for new energy systems

# module **ACDC Input**

## Hi Efficiency

The ACDC Input module is a 800W high efficiency rectifier with 54V output voltage. Specially designed for Datacom and Telcom applications, it is characterized by an insulation factor of 1500V.

## Always on

In the event of an overload, the module does not interrupt its operation by gradually reducing the output voltage and allowing the battery module to take over without causing interruption of service.

### Electrical Specifications

Operating Voltage	90 - 264 V AC
Max Power	800 W
Power Connector	VDE
Indicators	AC good / DC good
Active Protection	Short Circuit Protection, Overvoltage control, Overload control
I/O Isolation	1500 V
Output	54 V DC
Efficiency	88% Typ

### Environmental

Operating Temperature	-10°C to +70°C
Humidity	0 - 95% non condensing

### Mechanical Specifications

Dimensions (LxWxD)	227 x 86 x 40 mm
Weight	1.1 Kg
Enclosure Material	Varnished Iron



**TERMS OF USE:** This device must be professionally installed. Shielded ethernet cable and earth grounding must be used as conditions of product warranty. All specifications in this document are subject to change without notice.

For further information please visit [www.9dot.it](http://www.9dot.it).



# module **Battery Charger**

## Advanced Battery Charger

The charger is compatible with 48V lead or lithium strings. The charging current can be selected via software. In the event of a power failure or insufficient input, the system intervenes to ensure the operation of the connected devices by reducing the charging speed.

## Proactive Mode

The system performs programmable loading and unloading cycles during which it verifies the effective efficiency of the batteries and calculates the real autonomy in relation to the loads applied.

### Electrical Specifications

Operating Voltage	48 - 60 V DC
Charge Current	3 / 5 / 10 A (software selectable)
Power Connector	3 mm <sup>2</sup> wires terminal blocks
Indicators	Battery Status / On Charge / Charge Current
Efficiency	92% Typ

# module **DC Output**

## Full Managed

Each of the 8 doors is protected against short circuit with timed automatic reset, it is possible to enable and disable each door independently and perform power cycles. Each port is equipped with a current sensor.

## Voltage selection

The first 4 doors can be configured when purchasing with 3 different types of converter: without conversion, it draws directly from the voltage present on the main Rail (from the battery if discharging), fixed at 12V or at variable voltage at 29/48/54V software selectable.

### Electrical Specifications

Operating Voltage	Rail or Battery Voltage / 36 - 72 V DC
Max Power	1600 W cumulative / 400 W per port
Power Connector	1.4 mm <sup>2</sup> wires terminal blocks, 8 connectors
Indicators	Voltage / Load percentage
Active Protection	Short Circuit Protection, Overvoltage control, Overload control
I/O Isolation	1500 V
Output	Rail or Battery Voltage / 12 V DC / 29 - 48 - 54 V DC software selectable
Efficiency	94% Typ



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