



**20** Output ports

**2400** Watt max load

**10** Ampere charger

**OUT** Voltage selection

**HA** Priority system

### Active Power and Control

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

### Hot Swap Modularity

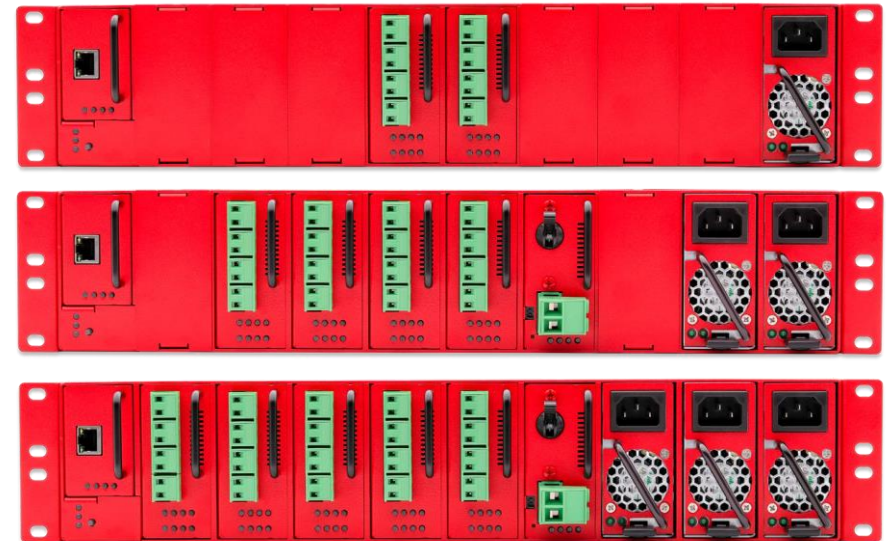
Each module can be added and removed when hot, allowing it to operate continuously while ensuring maximum reliability and safety

### Hi Speed Switch

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

### Dual Processor

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



# 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.9do.it](http://www.9do.it).



# module **Battery Charger**

## **Advanced Battery Charger**

The charger module 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**

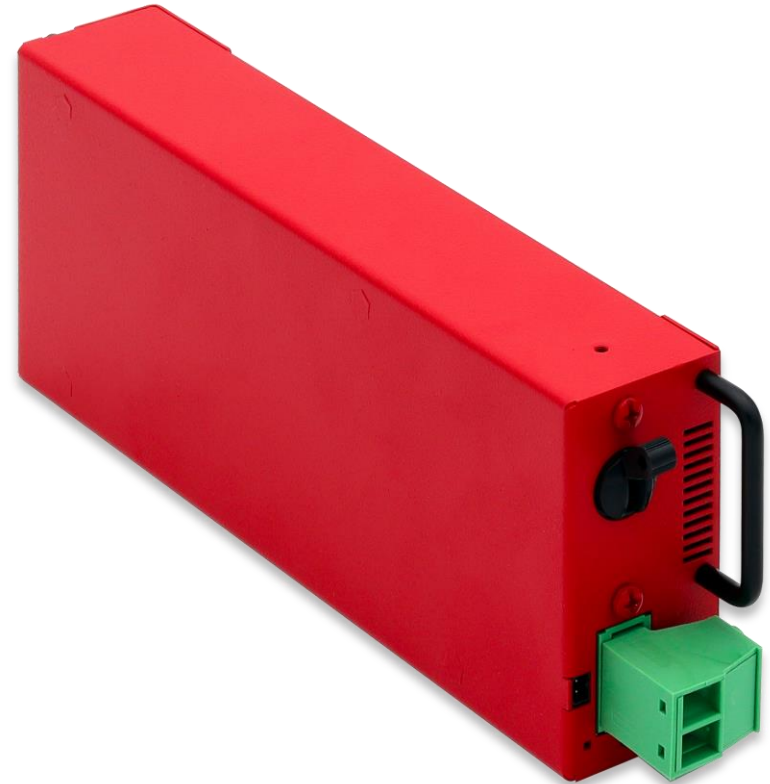
Operating Voltage	48 - 60 V DC
Charge Current	3 / 5 / 10 A (softwareselectable)
Power Connector	3 mm <sup>2</sup> wires terminal blocks
Indicators	Battery Status / On Charge / Charge Current
Efficiency	92% Typ

### **Environmental**

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

### **Mechanical Specifications**

Dimensions (LxWxD)	227 x 86 x 40 mm
Weight	0.4 Kg
Enclosure Material	Varnished Iron



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# module DC Output

## Full Managed

Each of the 4 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

There are 3 models of this module: without conversion, it draws directly from the voltage present on the main Rail (from the battery if discharging), fixed at 12V or with variable voltage 29/48 / 54V selectable by software.

## Electrical Specifications

Operating Voltage	Rail or Battery Voltage / 36 - 72 V DC
Max Power	450 W (cumulative and/or per port)
Power Connector	1.4 mm <sup>2</sup> wires terminal blocks, 4 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

## Environmental

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

## Mechanical Specifications

Dimensions (LxWxD)	227 x 86 x 40 mm
Weight	1.7 Kg
Enclosure Material	Varnished Iron



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# module **Controller**

## Indipendent CPU

The NCoreOS operating system performs all the interfacing functions with the user through the dashboard accessible via the web interface. It is also possible to interrogate and configure the system using SNMP and API protocols.

## On The Fly Update

During software updates, the system maintains the set functionality status without interrupting the voltage supplied to the connected devices. This module is also interchangeable in hot swaps.

## Electrical Specifications

Operating Voltage	5 V DC
Ethernet Connector	Shilded RJ45 Jack
Indicators	Main Status / On Alert / On Warning
Transmission Speeds	10BaseT; 100BaseT; 1000BaseT

## Environmental

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

## Mechanical Specifications

Dimensions (LxWxD)	227 x 56 x 40 mm
Weight	0.3 Kg
Enclosure Material	Varnished Iron



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