

NCORE LITE



- 8** Output ports
- 1600** Watt typ load
- 10** Ampere charger
- OUT** Voltage selectable
- 2** 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

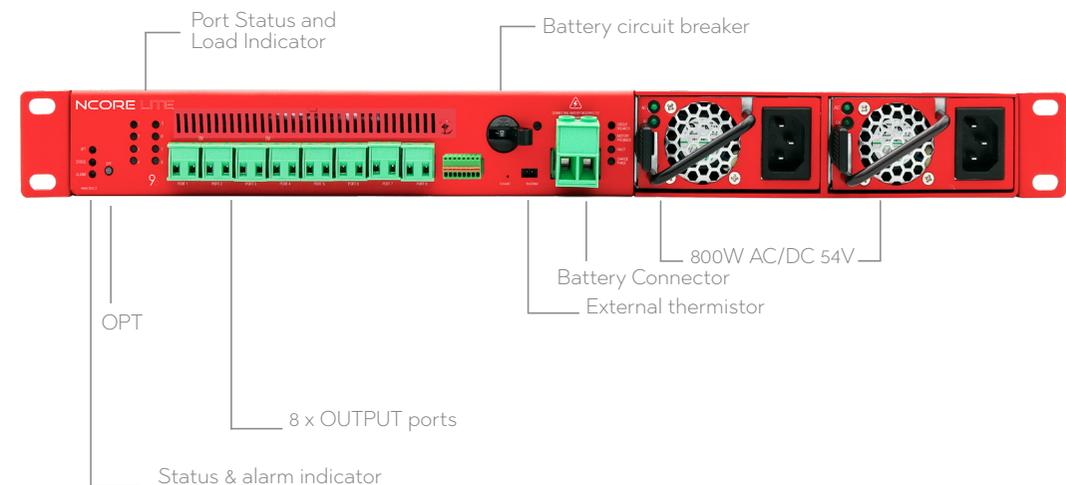
All the functionality is contained in a single rack unit.

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.



DCDC Input Module

Hi Efficiency

The DCDC Input module is an 800W high efficiency isolated converter with 54V output voltage. With an extended input voltage range between 36V and 75V, it can easily be powered by batteries, DC micro-grids or solar panels.

Always on

It can be combined with load sharing ACDC Input modules or used as the only power source. In case of overload or insufficient input, it goes into protection to ensure battery insertion.

Electrical Specifications

Operating Voltage	36 - 75 V DC
Max Power	800 W
Power Connector	16 mm ² wires terminal blocks
Indicators	DC IN good / DC OUT good
Active Protection	Short Circuit Protection, Overvoltage control, Overload control
I/O Isolation	2250 V
Output	54 V DC
Efficiency	95% Typ

Environmental

Operating Temperature	-10°C to +55°C
Humidity	0 - 95% non-condensing

Mechanical Specifications

Dimensions (LxWxD)	227 x 86 x 40 mm
Weight	1.1 Kg
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.

Compliance & Warranty

RoHS compliant	Yes
Certifications	CE - FCC
Warranty	consult with the nearest distributor



ACDC Input Module

Hi Efficiency

The ACDC Input module is an 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
Material	Varnished Iron

Compliance & Warranty

RoHS compliant	Yes
Certifications	CE - FCC
Warranty	consult with the nearest distributor



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Integrated Battery Charger

Advanced Battery Charger

The charger is compatible with 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

Typ charge voltage	48V
Max charge voltage	56.8V
Charge Current	1 / 5 / 10 A (software selectable)
Power Connector	16 mm ² wires terminal blocks
Indicators	Charge phase/Fault/Battery pressure/Circuit breaker status

ATTENTION: Do not connect a battery whose charge voltage is lower than the maximum charge voltage of the NCore Lite. Doing so could cause the battery to explode. (See "Technical Specifications" section in the NCore Lite Manual)

Integrated DC Output

Full Managed

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

Voltage selection

The first 4 ports can be configured when purchasing with 4 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/24V or at variable voltage at 29/48/54V software selectable.

Electrical Specifications

Operating voltage	Rail or Battery Voltage / 36 - 72 V DC
Typ Power	Check table
Power Connector	3.3 mm ² wires terminal blocks, 8 connectors
Indicators	Voltage / Load percentage
Active Protection	Overvoltage control, Overload control
I/O Isolation	1500V
Output	Rail or Battery Voltage / 12 V DC / 24 V DC / 29 - 48 - 54 V DC software selectable
Efficiency	94% Typ



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Integrated DC Output

		Group 1						Group 2			
	EXP Module 1	Module voltage	Port 1	Port 2	Group total power (W)		EXP Module 2	Module voltage	Port 1	Port 2	Group total power (W)
			current	current					current	current	
	None	40 - 54 V	5	5	540		None	40 - 54 V	5	5	540
NCore Lite	ADJ	54 V	5	5	400	NCore Lite	ADJ	54 V	5	5	400
		48 V	5	5	380			48 V	5	5	380
		29 V	5	5	230			29 V	5	5	230
	24	24 V	5	5	240		24	24 V	5	5	240
	12	12V	5	5	120		12	12V	5	5	120

NCore Lite	Group 3				
	Port 5	Port 6	Port 7	Port 8	Group total power (W)
	current	current	current	current	
	5	5	5	5	1000

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