

# Intel-Na Sodium-ion Battery Module

ECN5150R16S1PA1



## Application

Access network, transmission network, wireless base station, enterprise communication network, core computer room, etc.  
Remote and mountainous areas, border deserts, video spots, etc.

## Features



Flexible Configuration

The sodium-ion battery module can match the power supply requirements of UPS with different battery voltage levels, and is used to power the UPS system when the mains is abnormal. It can be flexibly configured according to the backup time.



Safety & Reliability

Fault self-recovery, battery cell real-time self-equalization, and provides overvoltage, undervoltage, overcurrent, short-circuit, high and low temperature and other protection functions, with a standard-configured PACK-level fire-fighting module, to achieve multiple safety guarantees



Environmental Friendly

Sodium-ion batteries do not contain toxic and harmful substances and have little impact on the environment



Warranty

Promise 5 years warranty

## Main Technical Parameters

	MODEL	ECN5150R16S1PA1
Basic Parameters	Cathode material	NaFePO4
	Design life	10 years
	Rated capacity	50AH/2280W
	Cooling mode	Forced-air cooling
Electrical Characteristics	Output voltage	53V (43~58VDC adjustable)
	Charging voltage	54.5V/55V
	Max. output power	4800W
	Max. discharging current	100A
	Max. charging current	50A
	Ripple and noise	200mVp-p (bandwidth 20MHz)
	Stabilized voltage precision	±0.6%
	Max. parallel connection number	CAN communication: 32 units; RS485 communication: 16 units
	Max. parallel power	24KW
	Cycle life	3000 times (1C, 80%DOD, 25°C)
Mechanical Properties	Dimension (WxDxH)(mm)	440x442x130(3U)(without hanging lug)
	Weight (kg)	45
	Installation type	Standard 19-inch rack
	Communication interface	CAN/RS485; 2pcs DO
Environments	Operating temperature	-20°C~+50°C (discharge); 0°C~+40°C (charge)
	Storage temperature	-20°C~+40°C (unpackaged)
	Transport temperature	-20°C~+40°C
	Relative humidity	5%~95% (non-condensing)
	Altitude	0~4000m (load derated 1% per 100m from 2000~4000m)
Safety protection	Battery cell overvoltage	Overvoltage protection point: 3.8VDC
	Battery cell undervoltage	Undervoltage protection point: 2VDC
	Battery cell overtemperature	Overtemperature protection point: 45°C
	Discharge overvoltage protection	Output port overvoltage protection point: 60VDC
	Discharge overcurrent protection	Output port overcurrent protection point: 180A
	EOD protection voltage	EOD protection voltage: 32VDC
	Output short-circuit protection	Equipped with short-circuit protection
Overtemperature protection	Overtemperature protection point: 50°C	
Noise	Specification requirement	50dB
Reliability	MTBF	500,000 hours
	Warranty	5 years