

Smart Controller with smart meter - Neuron III

- With electric meter and display
- Multi-protocol compatible
- Support flexible configuration
- Real-time maximum charging current control
- Support power line carrier communication LTE, Bluetooth



Hardware interfaces



Diagram of the front side of NeuronIII(N3)



Diagram of the back side of NeuronIII(N3)

Product Specifications

Product Model	Neuron III
Configuration	
CPU frequency	RK3128 ARM® Cortex™-A7 Quad-core 1.3GHz
Memory	512MB, DDR3
eMMC	8GB
Interface	
UART	2-way RS485
CANBUS	2-way
Network port	1-way, 100/1000M, RJ45
Bluetooth, WIFI	Bluetooth, WiFi integrated module, Bluetooth 4.0
LTE	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41
PLC	Three-phase PLC physical layer peak rate 0.507Mbit/s, application layer rate 80Kbps
Temperature and humidity	
Humidity	0%~100%RH ±2%RH(0~80%RH, @25°C); ±3%RH(80~100%RH, @25°C)
Temperature	-30°C~70°C ±0.3°C
Measurement accuracy	Current/voltage ± 0.5% Charge ± 1%
Transformer rated current	3 x 1.5(6)A
LCD	128×64 monochrome LCD
button	Setting button*1; Pairing button*1; Up button*1; Down button*1; Back button*1; Confirm button*1;
Indicator light (red, blue, green)	Green light: Successful pairing; Green flashing: Pairing; Red flashing: Fault; Red light: Alarm; Blue flashing: Connecting; Blue light: Successful connection
power supply	
Rated voltage	3 x 220/380V ±10%
Input frequency	50Hz ±10%
Power consumption	<3W/5VA
Environmental requirements	
Relative humidity	5%~95%, no condensation
Operating temperature	40-C-85°C
Storage humidity	40-C-85°C
Dimension	
Size	103 x 150 x 66.5 mm(4.063 x 5.906 x 2.617 in)