

NEUTRON

HYBRID SOLAR INVERTER

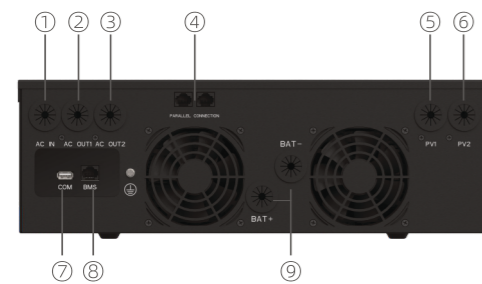
NTSI-LP1W-HEP12K

- Grid-tie with backup+off-grid
- Reliable quality, economical design
- Configurable AC/solar priority via LCD settings
- Built-in 80A MPPT solar charge controller
- PV input wide voltage range 60-450 VDC
- Smart battery charging design optimizes battery life
- WiFi remote monitoring optional
- Dual AC output
- Max.9 units in parallel connection



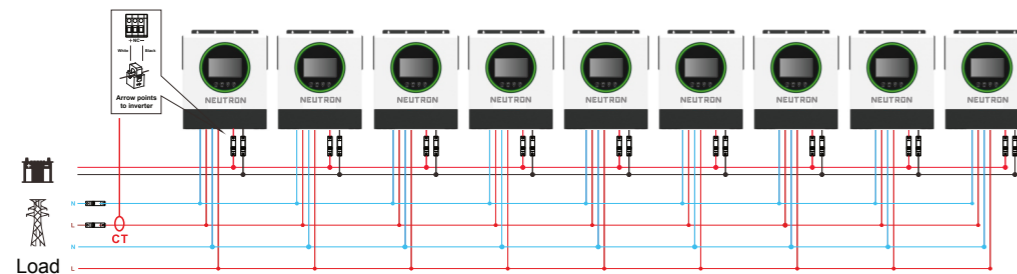
Model Name	NTSI-LP1W-HEP12K
Battery input data	
Battery Type	Lithium Battery or Lead Acid Battery
Rated battery voltage	48 VDC
Floating charging voltage	54 VDC
Overcharge protection voltage	61 VDC
Max. Charge/Discharge Current	160A
PV input data	
Maximum DC input power	7500W*2
Maximum DC input voltage	500 V
MPPT Operating voltage range	65-450 V
Starting voltage	About 70 VDC
Maximum input current	22.5A*2
MPPT number	2
AC output parameters	
Rated output apparent power	12000W
Maximum output apparent power	>125%, 10s; 102%-125% 60s
Rated output voltage	220/230/240 Vac ± 5%
Selectable voltage range	170-280VAC (UPS) 90-280VAC(APL)
Rated output frequency	50Hz/60Hz (Auto sensing)
Max output current	52A
Operate without battery	YES
Solar and AC Charge	
Max solar charge current	160A
Max AC charge current	160A
Maximum charge current	160A
Efficiency	
Max efficiency (AC)	>99.0%(Full load with battery connect)
Max efficiency (Battery)	0.94
Physical	
Dimensions D*W*H(mm)	506*334*143
Package Size D*W*H(mm)	588*494*208
Net weight(kg)	15
Gross weight(kg)	16
Communication Interface	WiFi/RS485(BMS)
Environment	
Humidity	5% to 95% relative humidity (non-condensign)
Operating temperature	-10°C~55°C
Storage temperature	-15°C~60°C

Back panel description



1. AC input (Ground/L/N)
2. AC output 1 (Main out for critical load, support battery back-up discharge)
3. AC output 2 (Main out for critical load, support battery back-up discharge, optional configuration of battery dual output low voltage shutdown)
4. Parallel Communication Ports
5. PV1 input
6. PV2 input
7. WiFi / GPRS Communication Port
8. BMS Communication Port (Support CAN/RS485 Protocol)
9. Battery Terminals

Max.9 Units in Parallel



*Product specifications are subject to change without further notice