

AMENSOLAR

HYBRID ON/OFF-GRID INVERTER

- UL Certification
- 48V low-voltage batteries
- 120V/240V(split phase) , 208V(2/3 phase)
230V(single phase)



Easy Installation

Flexible configuration, plug and play set-up
built-in fuse protection



48V

Includes low-voltage batteries



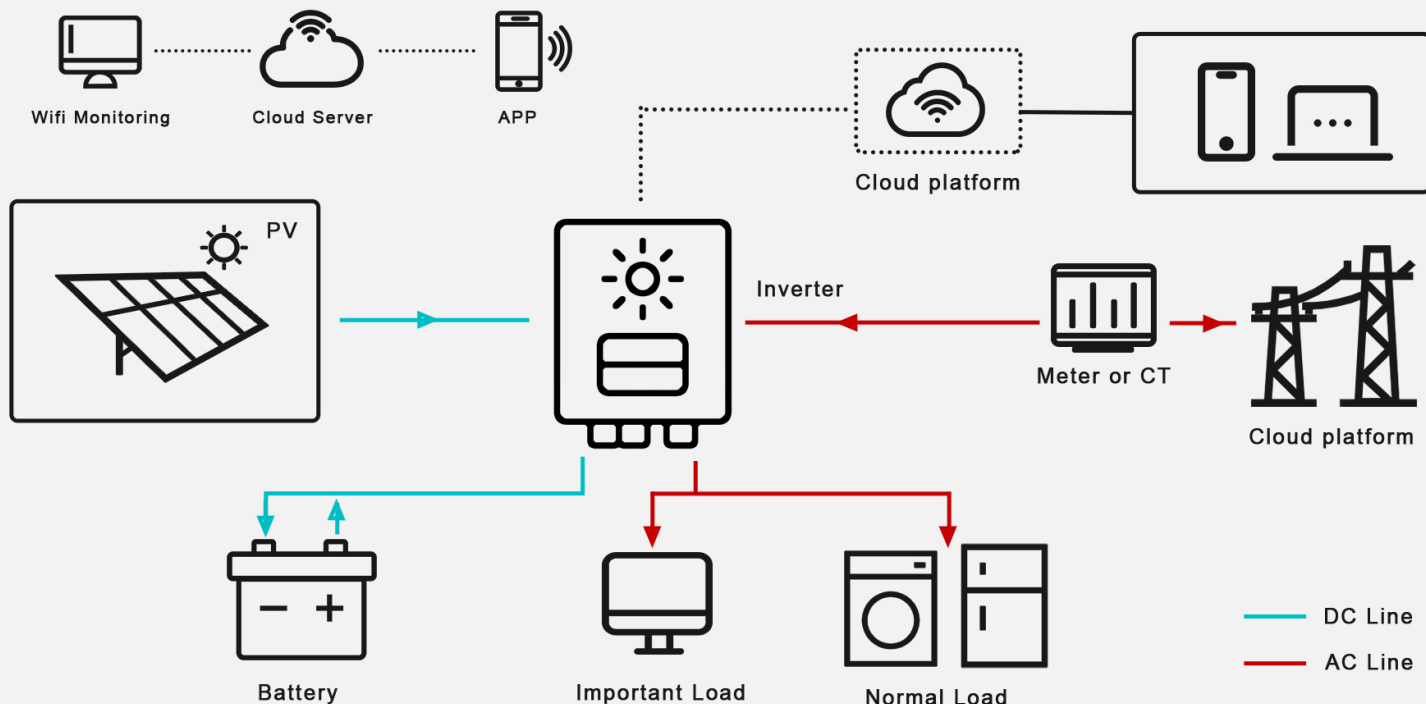
IP65 Rated

Engineered to last with maximum flexibility
Suitable for outdoor installation

SOLARMAN

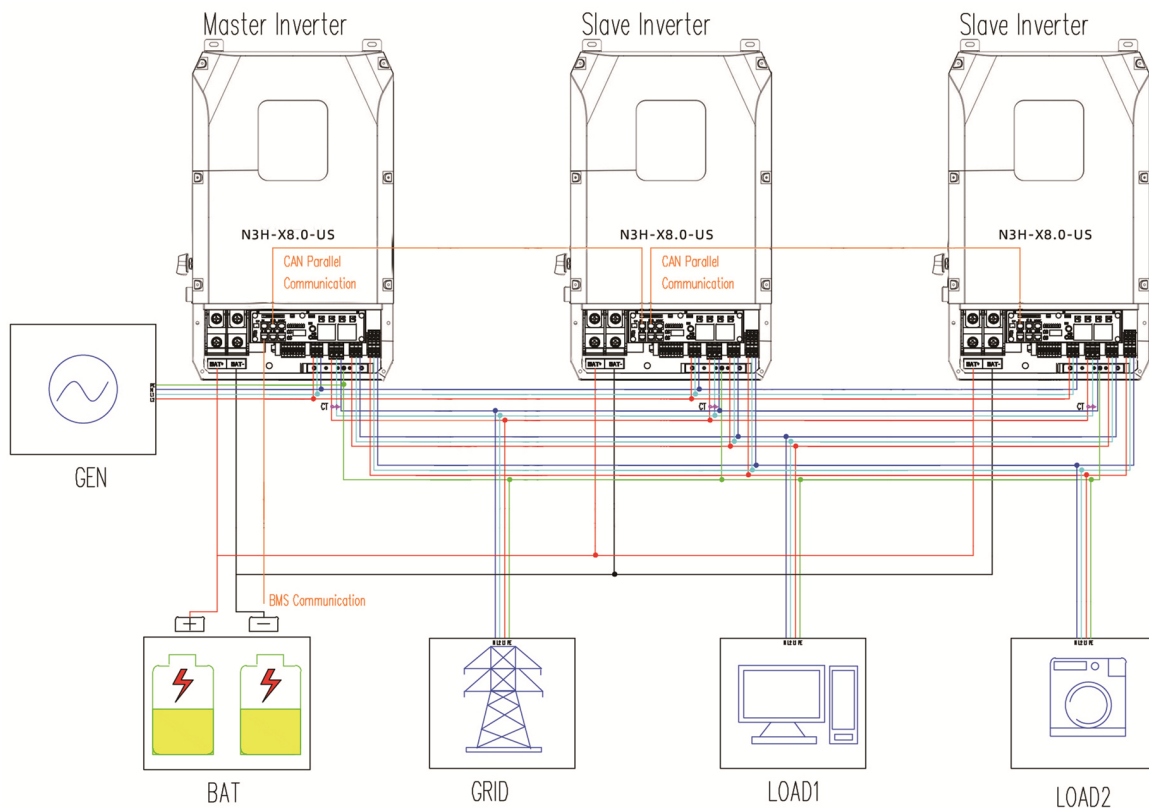
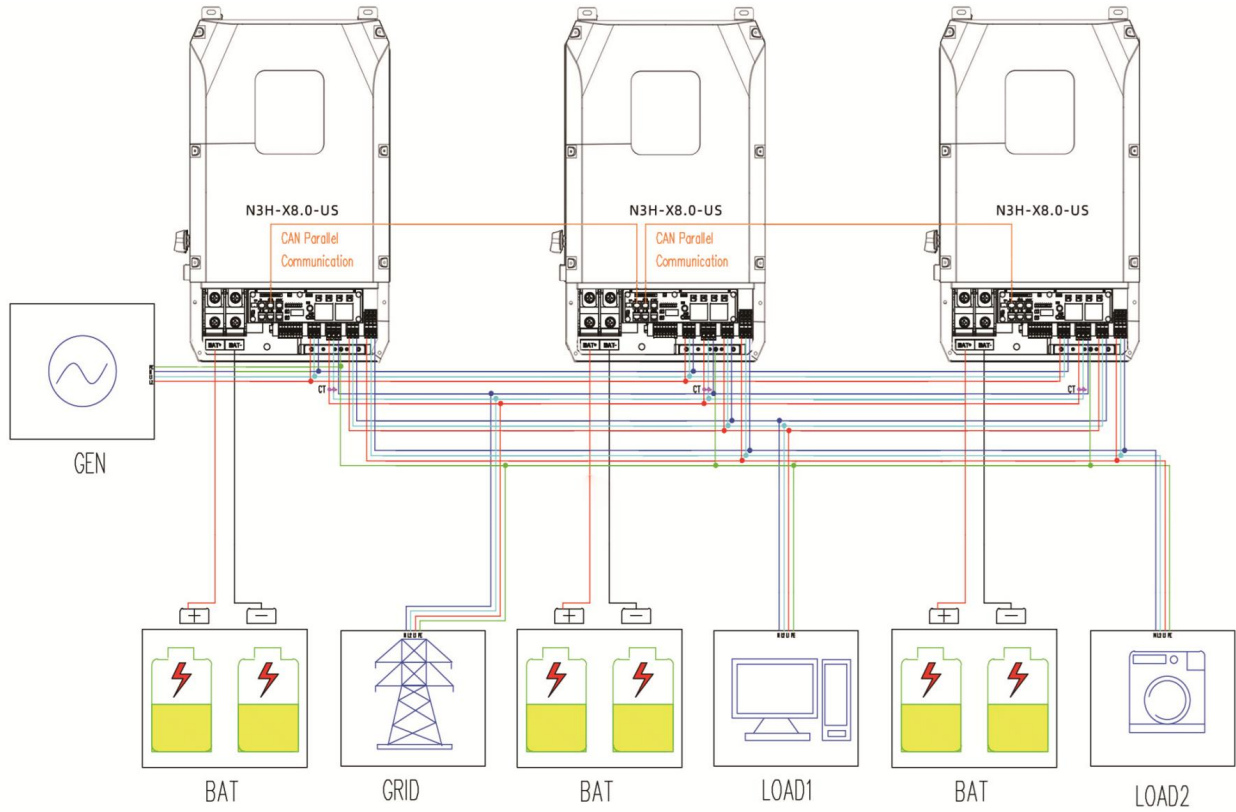
Remote Monitoring

Monitor your system remotely
via smartphone app or web portal



Inverter Parallel Guide

Parallel System Diagram



Technical Data	N3H-X5-US	N3H-X8-US	N3H-X10-US
PV Input Data			
MAX.DC Input Power	7.5kW	12kw	15KW
NO.MPPT Tracker	4		
MPPT Range	120 - 500V		
MAX.DC Input Voltage	500V		
MAX.Input Current	12A		
Battery Input Data			
Nominal voltage (Vdc)	48V	48V	48V
MAX.Charging/Discharging Current	120A/120A	190A/190A	190A/210A
Battery Voltage Range	40-60V		
Battery Type	Lithium and Lead Acid Battery		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
AC Output Data(On-Grid)			
Nominal output power Output to Grid	5KVA	8KVA	10KVA
MAX. Apparent Power Output to Grid	5.5KVA	8.8KVA	11KVA
Output Voltage Range	110-120/220-240V split phase, 1Ø, 230 1 phase		
Output Frequency	50/60Hz (45 to 54.9Hz / 55 to 65Hz)		
Nominal AC Current Output to Grid	20.8A	33.3A	41.7A
Max.AC Current Output to Grid	22.9A	36.7A	45.8A
Output Power Factor	0.8leading...0.8lagging		
OutPut THDI	< 2%		
AC Output Data(Back-Up)			
Nominal. Apparent Power Output	5KVA	8KVA	10KVA
MAX. Apparent Power Output	5.5KVA	8.8KVA	11KVA
Nominal Output Voltage L-N/L1-L2	120/240V		
Nominal Output Frequency	60Hz		
Output THDU	< 2%		
Efficiency			
Europe Efficiency	≥97.8%		
MAX. Battery to Load Efficiency	≥97.2%		

Protection	
Grounding detection	YES
Arc Fault Protection	YES
Island Protection	YES
Battery reverse Polarity	YES
Insulation Resistor Detection	YES
Residual Current Monitoring Unit	YES
Output Over Current Protection	YES
Back-up Output Short Protection	YES
Terminal temperature detection	YES
Output Over Voltage Protection	YES
Output Under Voltage Protection	YES
General Data	
Output Conduit	25.4mm
PV Input Conduit	25.4mm
BAT Input Conduit	34.5mm
Operating Temperature Range	-25 ~ +60°C
Relative Humidity	0-95%
Operating Altitude	0~4000m
Ingress Protection	IP65/NEMA 3R
Weight	41kg
Size (Width*Height*Depth)	530mm x 660mm x 200mm
Cooling	Natural Convection
Noise emission	<38dB
Display	LCD
Communication With BMS/Meter/EMS	CAN, RS485
Supported communication interface	RS485, WLAN, 4G (optional)
Self-consumption at night	< 15W (with battery enabling < 20W)
Safety	UL1741SA all options, UL1699B, CSA 22.2
EMC	FCC Part 15 Class
Grid connection standards	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III