NUOVOLT
FUTURE OF INTELLIGENT POWER

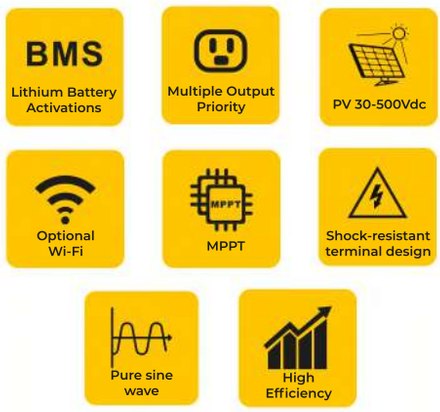
MPPT SMART INVERTER
datasheet

NUOVOLT 1.5kW 12V / 3.5kW 24V 230Vac Output

Features

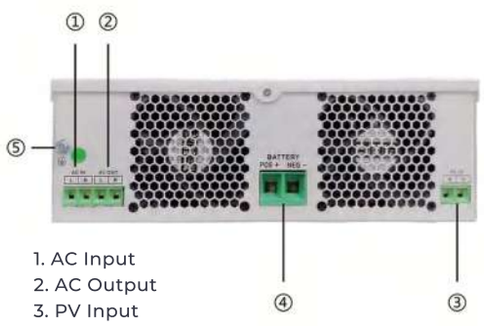
* Lithium battery activation function triggered by PV
* Pure sine wave
* PV input: Max. 500V DC
* Built-in MPPT: 60A–100A
* Removable dust cover for harsh environments
* WiFi remote monitoring (optional)
* Support for multiple output priorities: UTL, SOL, SBU, SUB
* EQ function to optimize battery performance and extend lifespan





MODEL	12V 1.5kW	24V 3.5kW
Capacity	1.500VA / 1.500W	3.500VA / 3.500W
Parallel Operation	NO	
Lithium Battery Activation	YES (PV-Dependent)	
Lithium Battery Communication	NO	
AC INPUT		
Nominal Voltage	230VAC	
Acceptable Voltage Range	170–280VAC (for Personal Computers); 90–280VAC (for Household Appliances)	
Frequency	50 / 60 Hz (Automatic Detection)	
AC OUTPUT		
Nominal Voltage	220 / 230VAC ± 5%	
Rated Power	1.500VA / 1.500W	3.500VA / 3.500W
Battery Mode Power	1.200VA / 1.200W	3.000VA / 3.000W
Surge Power	3.000VA	7.000VA
Frequency	50 / 60 Hz	
Waveform	Pure Sine Wave	
Transfer Time	10 ms (for Personal Computers); 20 ms (for Household Appliances)	
Maximum Efficiency (PV to Inverter)	96%	
Maximum Efficiency (PV to Battery)	93%	
Overload Protection	5s@ > = 140% Load; 10s@ 100% ~ 140% Load	
Crest Factor	3 : 1	
Acceptable Power Factor	0.6 ~ 1 (Inductive or Capacitive)	
BATTERY		
Battery Voltage	12Vdc	24Vdc
Float Charging Voltage	13.5Vdc	27Vdc
Overcharge Protection	16.5Vdc	32Vdc
Charging Method	CC / CV	
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	2.000W	4.000W
Maximum PV Array Open-Circuit Voltage (Voc)	500VDC	
PV Array MPPT Voltage Range	30VDC ~ 500VDC	
Maximum Solar Input Current	15A	
Maximum Solar Charging Current	100A	100A
Maximum AC Charging Current	60A	60A
Maximum Charging Current (AC + PV)	100A	100A
PHYSICAL		
Dimensions (D × W × H) ***mm***	311,6 x 278 x 98	334 x 293 x 98,5
Package Dimensions (D × W × H) ***mm***	402 x 368 x 174	
Net Weight (kg)	4,0	4,4
Gross Weight (Kg)	4,9	5,25
Communication Interface	RJ45 for Wi-Fi	
ENVIRONMENTAL		
Operating Temperature Range	-10 °C to 55 °C	
Storage Temperature	-15 °C to 60 °C	
Humidity	5% to 95% Relative Humidity (Non-Condensing)	
Ingress Protection Rating (IP)	IP21	

Bottom View



1. AC Input
2. AC Output
3. PV Input
4. Battery Input
5. Grounding

System Diagram



Product specifications are subject to change without prior notice.

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