NUOVOLT
FUTURE OF INTELLIGENT POWER

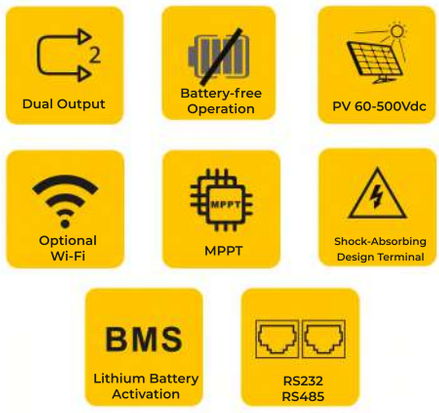
MPPT SMART INVERTER
datasheet

4.2kW 24V Twin / 6.2kW 48V Twin 230Vac Output

Features

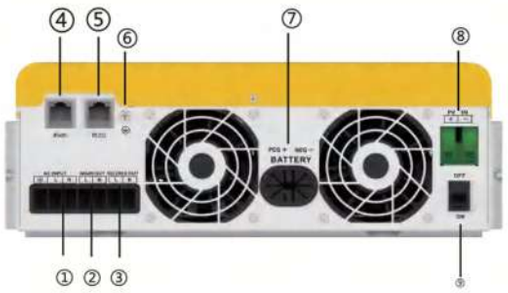
* Dual output for smart load management
* Lithium battery activation function (via PV or grid)
* Compatible with LiFePO4 batteries via RS485
* PV input: Max. 500Vdc
* Built-in 100A/120A MPPT
* Operates without a battery
* Removable dust cover for harsh environments
* WiFi remote monitoring (optional)
* Supports multiple output priorities: UTL, SOL, SBU, SUB
* EQ function to optimize battery performance and extend lifespan





MODEL	24V 4.2kW	48V 6.2kW
Phase	1 Phase Input / 1 Phase Output	
Maximum PV Input Power	6.200W	9.000W
Maximum Main Output Power	4.200VA / 4.200W	6.200VA / 6.200W
Maximum Secondary Output Power	4.200VA / 4.200W	6.200VA / 6.200W
Maximum Total Output Power	4.200VA / 4.200W	6.200VA / 6.200W
Parallel Operation	NO	NO
Lithium Battery Activation	YES (Solar Panel or Grid)	
Lithium Battery Communication	YES (RS485)	
Wi-Fi	Optional	
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%	
Instantaneous (Surge) Power	8.400VA	12.400VA
Frequency	50 / 60 Hz	
Waveform	Pure Sine Wave	
Dual Output	YES	
Transfer Time	10 ms (for Personal Computers); 20 ms (for Household Appliances)	
Peak Efficiency	94%	
Overload Protection	5s @ ≥ 140% Load; 10s @ 100%–140% Load	
Permitted Power Factor	0.6 ~ 1 (Inductive or Capacitive)	
BATTERY		
Battery Voltage	24Vdc	48Vdc
Float Charging Voltage	27Vdc	54Vdc
Overcharge Protection	33Vdc	63Vdc
Charging Method	CC / CV	
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Maximum PV Array Power	6.200W	9.000W
Maximum PV Array Open-Circuit Voltage	500VDC	
PV Array MPPT Voltage Range	60VDC ~ 500VDC	
Maximum Solar Input Current	1 / 27A	
Maximum Solar Charging Current	120A	
Maximum AC Charging Current	120A	
Maximum Charging Current	120A	
PHYSICAL		
Dimensions (D × W × H) ***mm***	368 x 342 x 120,5	371,8 x 342 x 116,5
Package Dimensions (D × W × H) ***mm***	478 x 408 x 195	
Net Weight (kg)	7.9	
Gross Weight (Kg)	8,9	
Communication Interface	RS485 (RJ45) / RS232 (RJ45)	
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



4.2 / 6.2 KW

1. AC input
2. Main output
3. Second output
4. RS485 communication port
5. RS232 communication port
6. Grounding
7. Battery input
8. PV (solar panel) input
9. On/off switch

Product specifications are subject to change without prior notice.

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