

NB / NB-T Series Inverter with Charger

700W - 1200W Pure Sine Wave Tower Type Inverter / Charger

Model: NB Series



Features:

- Pure sine wave output in battery mode
- Rated power 700W / 1000W / 1200W
- Peak power up to 3600VA (20 ms)
- Starts motor loads up to 1HP
- Three-stage AC charging (constant current, constant voltage, float)
- Battery First / AC First / Energy Saving modes
- Transfer time ≤ 4 ms
- LCD display, intelligent-control cooling fan
- Battery, overload, short-circuit and temperature protection
- Optional built-in PWM solar controller, optional RS232

Rated	Peak (20ms)	Output	Battery	Transfer	Display
700-1200W	2100-3600VA	Pure Sine	12/24/48V	≤ 4 ms	LCD

Working Modes:

- Battery First
- AC First
- Energy Saving Mode

Applications:

- Personal computer
- Printer
- POS (point of sales) terminals
- Security system
- Fax machine
- Modem, router



Specification:

Model NB / NB-T	70112	10212/24/48	12224
General			
Rated power	700W	1000W	1200W
Peak power (20ms)	2100VA	3000VA	3600VA
Start motor	0.5HP	1HP	1HP
Battery voltage	12VDC	12/24/48VDC	24VDC
Size (L x W x H, mm)	410 x 143 x 210		
Packing size (L x W x H, mm)	460 x 200 x 270 (1 unit) / 475 x 425 x 285 (2 units)		
N.W. (kg)	11	13	14
G.W. (kg), carton packing	12	14	15
Installation method	Tower		
Input			
DC input voltage range	10.5-15VDC (single battery voltage)		
AC input voltage range	73-138VAC (110VAC) / 83-148VAC (120VAC) / 145-275VAC (220VAC) / 155-285VAC (230VAC) / 165-295VAC (240VAC)		
AC input frequency range	45-55Hz (50Hz) / 55-65Hz (60Hz)		
Max AC charging current	6A-15A (depending on the model)		
AC charging voltage	Lead battery: charge voltage 14.2V; float voltage 13.8V (single battery voltage)		
AC charging method	Three-stage (constant current, constant voltage, floating charge)		
Output			
Efficiency (battery mode)	≥ 85%		
Output voltage (battery mode)	110VAC±2% / 120VAC±2% / 220VAC±2% / 230VAC±2% / 240VAC±2%		
Output frequency (battery mode)	50Hz±0.5 or 60Hz±0.5		
Output wave (battery mode)	Pure sine wave		
Efficiency (AC mode)	> 99%		
Output voltage (AC mode)	110VAC±10% / 120VAC±10% / 220VAC±10% / 230VAC±10% / 240VAC±10%		
Output frequency (AC mode)	Follow input		
Output waveform distortion (battery mode)	≤ 3% (linear load)		
No load loss (battery mode)	≤ 2.5% rated power		
No load loss (AC mode)	≤ 2% rated power (charger does not work in AC mode)		
No load loss (energy saving mode)	≤ 10W		
Battery			
Battery type	VRLA battery. Charge voltage 14.2V; float voltage 13.8V (single battery voltage)		
Customize battery	Charge and discharge parameters of other battery types (such as lithium) can be customized according to user requirements		
Protection			
Battery undervoltage alarm	Factory default: 11V (single battery voltage)		
Battery undervoltage protection	Factory default: 10.5V (single battery voltage)		
Battery overvoltage alarm	Factory default: 15V (single battery voltage)		
Battery overvoltage protection	Factory default: 17V (single battery voltage)		
Battery overvoltage recovery voltage	Factory default: 14.5V (single battery voltage)		
Overload power protection	Automatic protection (battery mode), circuit breaker or fuse (AC mode)		

Model NB / NB-T	70112	10212/24/48	12224
Inverter output short circuit protection	Automatic protection (battery mode), circuit breaker or fuse (AC mode)		
Temperature protection	> 90°C (shut down output)		
Alarm			
A	Normal working condition, buzzer has no alarm sound		
B	Buzzer sounds 4 times per second on battery failure, voltage abnormality or overload protection		
C	When the machine is turned on for the first time, the buzzer prompts 5 times if the machine is normal		
Inside Solar Controller (Optional)			
Charging mode	PWM		
Charging current	10A-60A		
PV input voltage range	15-44V (12V system); 30-44V (24V system); 60-88V (48V system)		
Max PV input voltage (Voc, at lowest temperature)	50V (12V/24V system); 100V (48V system)		
PV array maximum power	12V system: 140W (10A) / 280W (20A) / 420W (30A) / 560W (40A) / 700W (50A) / 840W (60A) 24V system: 280W (10A) / 560W (20A) / 840W (30A) / 1120W (40A) / 1400W (50A) / 1680W (60A) 48V system: 560W (10A) / 1120W (20A) / 1680W (30A) / 2240W (40A) / 2800W (50A) / 3360W (60A)		
Standby loss	≤ 3W		
Maximum conversion efficiency	> 95%		
Others			
Working mode	Battery First / AC First / Saving Energy Mode		
Transfer time	≤ 4 ms		
Display	LCD		
Thermal method	Cooling fan in intelligent control		
Communication	RS232 (optional)		

Order Information:

Model	Description	Packing
NB(-T) 70112	700W / peak 2100VA, 12VDC inverter / charger	1 or 2 units / carton
NB(-T) 10212/24/48	1000W / peak 3000VA, 12/24/48VDC inverter / charger	1 or 2 units / carton
NB(-T) 12224	1200W / peak 3600VA, 24VDC inverter / charger	1 or 2 units / carton

Note: Design & Specification are subject to change without notice.

NB series solar inverter power ranges from 350W to 40kW. Please contact us for more information.

VIDEOLINEUSA Security Systems, Inc.

Head Office : 601, Woolim e-BizII,
184-1 Guru Dong, Guru-gu,
Seoul 152-050, Korea
Tel # : +82-2-8913231
Fax # : +82-2-856-8732
Email : info@videolineusa.com