

ECENER

Off-Grid Solar
System



Off-grid Pure Sine Wave Inverter

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(NW) Series inverter will be ideal for running nonlinear loads (such as variable speed motors and small compressors and air conditioner). Pure sine power is also preferred for LaserJet printers, sensitive electronics, computer servers, microwaves and cordless drill battery chargers. The digital display will guide you to monitor your battery capacity and power consumption.

Features :

- ▶ Over 2 times surge power
- ▶ 12/24/48V DC input
- ▶ 100-120V/220-230V AC output
- ▶ Pure sine wave
- ▶ Connector for remote on/off switch
- ▶ Input and output isolated
- ▶ Digital display shows input voltage and % of Max power alternately
- ▶ Thermally controlled cooling fans
- ▶ Input protection: Reverse polarity(by Fuse)/Under voltage/Over voltage
- ▶ Output protection: Short circuit/Overload/Over temperature
- ▶ 1year warranty
- ▶ Optional: Remote port, battery power and grid power priority can be chosen(NP Series)



Technical Data:

Model No.	NW800	NW1000	NW1500	NW2000	NW3000	NW5000	NW6000	NW7000	NW8000
Rated Power	800W	1000W	1500W	2000W	3000W	5000W	6000W	7000W	8000W
	1000VA	1500VA	2000VA	2500VA	4000VA	6000VA	7000VA	8000VA	10KVA
Surge Power	>1600W	>2000W	>3000W	>4000W	>6000W	>10000W	>12000W	>14000W	>16000W
Input Voltage	12V/24V/48V DC						24V/48V DC		
Output Voltage	100 / 110 / 120V ± 5% or 220 / 230 / 240V ± 3%								
Frequency	50 / 60Hz +/- 0.3Hz								
Output Waveform	Pure Sine Wave (THD < 3%)								
Efficiency	88% for 12V; 92% for 24V; 93% for 48V								
No Load Current Draw(A)	0.6(12V)0.3(24V) 0.2(48V)			1.2(12V)0.6(24V) 0.3(48V)		1.5(12V) 0.8(24V) 0.4(48V)	1.2(24V)0.5(48V)		
Input Voltage Regulation	11-15VDC / 22-30VDC / 44-60VDC						22-30VDC / 44-60VDC		
LED Indicator	Red LED indicates failure, Green LED indicates normal								
Digital Display	Optional				Alternate shows the DC input voltage and AC loading % of maximum load				
Protection	Overload, Short Circuit, Reverse Polarity (Fuse), Over Temperature, Low battery, High battery								
Optional	Remote port								
Operating Temperature Range	0 – 40°C								
Storage Temperature Range	-30°C to 70°C								
Cooling	Temperature control the cooling fan								
Dimensions(mm)	290x153x70	280x153x88	320x153x88	350x153x88	365X192X130	455x209x130	575x209x130		
Net Weight(kgs)	2.6	2.7	3.5	4	8	11.5	13.5	14	14.5
Gross Weight(kgs)	11.6	12.5	14	18	17	24	14.5	15	15.5
Carton Dimension(cm)	43x42x26	51.6x45.5x41.5	46x41x30	48x41x30	61x43x32	61.5x59x24.5	61x30x24		
QTY per carton(pcs)	4	6	4	4	2	2	1		

NEW CHOICE (NC)Series Inverter/Charger is the latest model designed by Neway Power, developed on the base of NW series, it solved the low frequency the problem of heavy and low efficiency. The transfer time is 3ms only, and function is more reliable and powerful. And you can choose the priority of battery and AC power. It is an ideal for home use, special truck, RV, solar power system and so on.

Battery power and grid power priority can be chosen function is our special design for the solar power system, you can choose AC power Priority or Battery Power Priority. For the solar power system, you usually need solar power firstly so you choose battery priority, and when the battery is low, the system will transfer AC power automatically. If for home use, we usually choose AC power priority. When there is no AC power, the inverter transfer into battery and inverter mode automatically. when the AC comes, it transfer to AC power automatically. It is the best choice for the solar power system!

Features:

- ▶ Over 2 times surge power
- ▶ 12/24/48V DC input
- ▶ 100-120V/220-230V AC output
- ▶ Pure sine wave
- ▶ Connector for remote on/off switch
- ▶ Input and output isolated
- ▶ Digital display shows input voltage and % of Max power alternately
- ▶ Thermally controlled cooling fans
- ▶ Input protection: Reverse polarity(By Fuse)/Under voltage/Over voltage
- ▶ Output protection: Short circuit/Overload/Over temperature
- ▶ 1 year warranty
- ▶ Optional: Remote port and priority between battery power and AC power



Technical Data:

Model No.		NC800	NC1000	NC1500	NC2000	NC2500	NC3000	NC3500	NC5000	NC6000	
Inverter	Continuous Output Power	1000VA	1500VA	2000VA	2500VA	3000VA	4000VA	5000VA	6000VA	7000VA	
		800W	1200W	1500W	2000W	2500W	3000W	3500W	5000W	6000W	
	Surge Rating	3000VA	4500VA	6000VA	7500VA	9000VA	12000VA	15000VA	18000VA	21000VA	
	Input Voltage	12V/24V/48V									
	Output Voltage	100 / 110 / 120V ± 5% or 220 / 230 / 240V ± 3%									
	Frequency	50 / 60Hz +/- 0.5%									
	Output Waveform	Pure Sine Wave (THD < 3%)									
	Efficiency (full load)	88% for 12V;92% for 24V;93% for 48V									
	No Load Current Draw	0.6(12V)0.3(24V)0.2(48V)			0.7(12V)0.4(24V)0.3(48V)			1(12V)0.55(24V)0.35(48V)		1.5(12V)0.7(24V)0.5(48V)	
	Input Voltage Regulation	11-15VDC/ 22-30VDC/ 44-60VDC									
	Input Level Indicator	Red /Green LED									
	Digital Display	Alternate shows the DC input and AC loading % of maximum load									
Failure Indicator	Red LED										
Charger	AC Input Volt	110VAC+/-10% or 220VAC+/-10%									
	Charge Current	10/5/2.5A			30/15/7.5A			50/25/12.5A			
	Charge Mode	3 stages charge mode									
AC bypass /Grid backup	AC Input	AC grid power or AC engine									
	Transfer Time	Inverter to AC grid, 3ms, AC grid power to inverter, 8ms									
	Max Transfer Current	8/4A	10/5A	15/7.5A	20/10A	23/12A	30/15A	32/16A	50/25A	55/27.5A	
	Description	If there is AC grid power, the system uses AC grid power(bypass),the system will transfer to the inverter mode automatically if the grid is off.									
Optional	Battery priority	The system use battery power(inverter mode) firstly, when the battery is low, it transfers to AC bypass automatically.									
	AC Priority	The system use AC grid power(bypass) firstly, when the AC is off, it transfers to battery supply power automatically.									
	Remote Port	Available									
General Data	Protection	Overload, Short Circuit, Reverse Polarity (Fuse), Over Temperature, Low battery, High battery									
	Operating Temperature Range	0 – 40℃									
	Storage Temperature Range	-30℃ to 70℃									
	Cooling	Temperature control the cooling fan									
	Dimensions(mm)	350x153x88	390x153x88	420x153x88	448X192X130			538x209x135		658x209x135	
	Net Weight(kgs)	3.7	3.7	4	8.5	9	12	12.6	15.5	16	

NWE Series Economical Pure Sine Wave Inverter is an economical series of the pure sine wave inverter. It is suitable for most of the normal market.

Features:

- ▶ Output waveform: Pure Sine Wave
- ▶ Low battery alarm
- ▶ Low battery shut down
- ▶ High Voltage shut down
- ▶ Overload protection
- ▶ Output short -circuit protection
- ▶ Reverse Polarity Protection
- ▶ LED indicator showing power status and fault
- ▶ Thermal Cooling Fan
- ▶ Soft Start
- ▶ DC/AC Isolated
- ▶ Remote controller optional



Technical Data:

Model No.	NWE400	NWE800	NWE1000	NWE1500	NWE2000	NWE3000	NWE4000	NWE5000	NWE6000
Rated Power	400VA	800VA	1000VA	1500VA	2000VA	3000VA	4000VA	5000VA	6000VA
	300W	600W	800W	1000W	1500W	2200W	3000W	4000W	4800W
Surge Power	800VA	1600VA	2000VA	3000VA	4000VA	6000VA	8000VA	10000VA	12000VA
Input Voltage	12V/24V/48V DC								
Output Voltage	100 / 110 / 120V ± 5% or 220 / 230 / 240V ± 3%								
Frequency	50 / 60Hz +/- 0.3Hz								
Output Waveform	Pure Sine Wave (THD < 3%)								
Efficiency	88% for 12V; 92% for 24V;93% for 48V								
No Load Current Draw(A)	0.6(12V),0.3(24V)0.2(48V)			0.7(12V),0.4(24V)0.3(48V)			1.0(12V),0.55(24V)0.35(48V)		1.5(12V), 0.7(24V)0.5(48V)
Input Voltage Regulation	11-15VDC / 22-30VDC / 44-60VDC								
LED Indicator	Red LED indicates failure, Green LED indicates normal								
Digital Display	N/A		Alternate shows the DC input voltage and AC loading % of maximum load						
Protection	Overload, Short Circuit, Reverse Polarity (Fuse), Over Temperature, Low battery voltage, High battery voltage								
Operating Temperature Range	0 to 40°C								
Storage Temperature Range	-30°C to 70 °C								
Cooling	Temperature control the cooling fan								
Dimensions(mm)	170x118x62	290x150x70	290x150x70	290x150x70	350X210X130	350X210X130	480x210x130		455x209x130
Weight(kgs)	1.2	2.2	2.3	2.4	5	5.5	10	11	12
QTY/ Carton (pcs)	12	4			1		1		2
Carton Size (LxWxH)(mm)	570X340X320	410X360X250	430X420X260		490X290X195		640X310X250		615x590x245