

LITHIUM BATTERY

VICTOR NM-ESS SERIES



Features

- Pure sine wave solar inverter(on/off Grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory Settings
- Built-in Lithium battery automatic activation
- Built-in 120A MPPT Solar charge:max 6200W(for 3.6KW), max 6500W (for 6.2KW)
- High PV input voltage range(60~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output

INVERTER

MODEL	VICTOR NM-ESS-3.6KW PLUS	VICTOR NM-ESS-6.2KW PLUS
Phase	1-phase	
Maximum PV Input Power	6200W	6500W
Rated Output Power	3600W	6200W
Maximum Solar Charging Current	120A	
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage / Initial Feeding Voltage	60VDC/90VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A

GRID OUTPUT (AC)

Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195.5~253VAC	
Nominal Output Current	15.7A	27.0A
Power Factor	>0.99	

EFFICIENCY

Maximum Conversion Efficiency (DC/AC)	98%	
---------------------------------------	-----	--

TWO LOAD OUTPUT POWER

Full Load	3600W	6200W
Maxium Main Load	3600W	6200W
Maxium Second Load(battery mode)	1200W	2067W
Maxium Load Cut Off Voltage	26VDC	52VDC
Maxium Load Return Voltage	27VDC	54VDC

OFF-GRID OPERATION

AC INPUT

AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Frequency Range	49~51±1HZ	
Maximum AC Input Current	30A	40A

PV INPUT (DC)

Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A

BATTERY MODE OUTPUT (AC)

Nominal Output Voltage	220/230/240VAC	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	94%	

BATTERY & CHARGER

Nominal DC Voltage	24VDC	48VDC
Maximum Solar Charging Current	120A	120A
Maximum AC Charging Current	100A	100A
Maximum Charging Current	120A	120A

HYBRID OPERATION

PV INPUT (DC)

Nominal DC Voltage/Maximum DC Voltage	360/500VDC	
Start-up Voltage / Initial Feeding Voltage	90VDC/120VDC	
MPPT Voltage Range	60~450VDC	
Maximum Input Current	1/18A	1/22A

GRID OUTPUT (AC)

Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195.5~253VAC	
Nominal Output Current	15.7A	27.0A

AC INPUT

AC Start-up Voltage / Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	30A	40A
Maximum AC Charging Current	100A	

GENERAL

PHYSICAL

Dimension, D x W x H (mm)	420*350*110	
Carton Dimension, D X W XH(mm)	500*410*190	
Net Weight (kgs)	18.5	19.5
Gross Weight(kgs)	20.5	21.5

INTERACE

Communication Port	RS232/WIFI/GPRS/LITHIUM BATTERY	
--------------------	---------------------------------	--

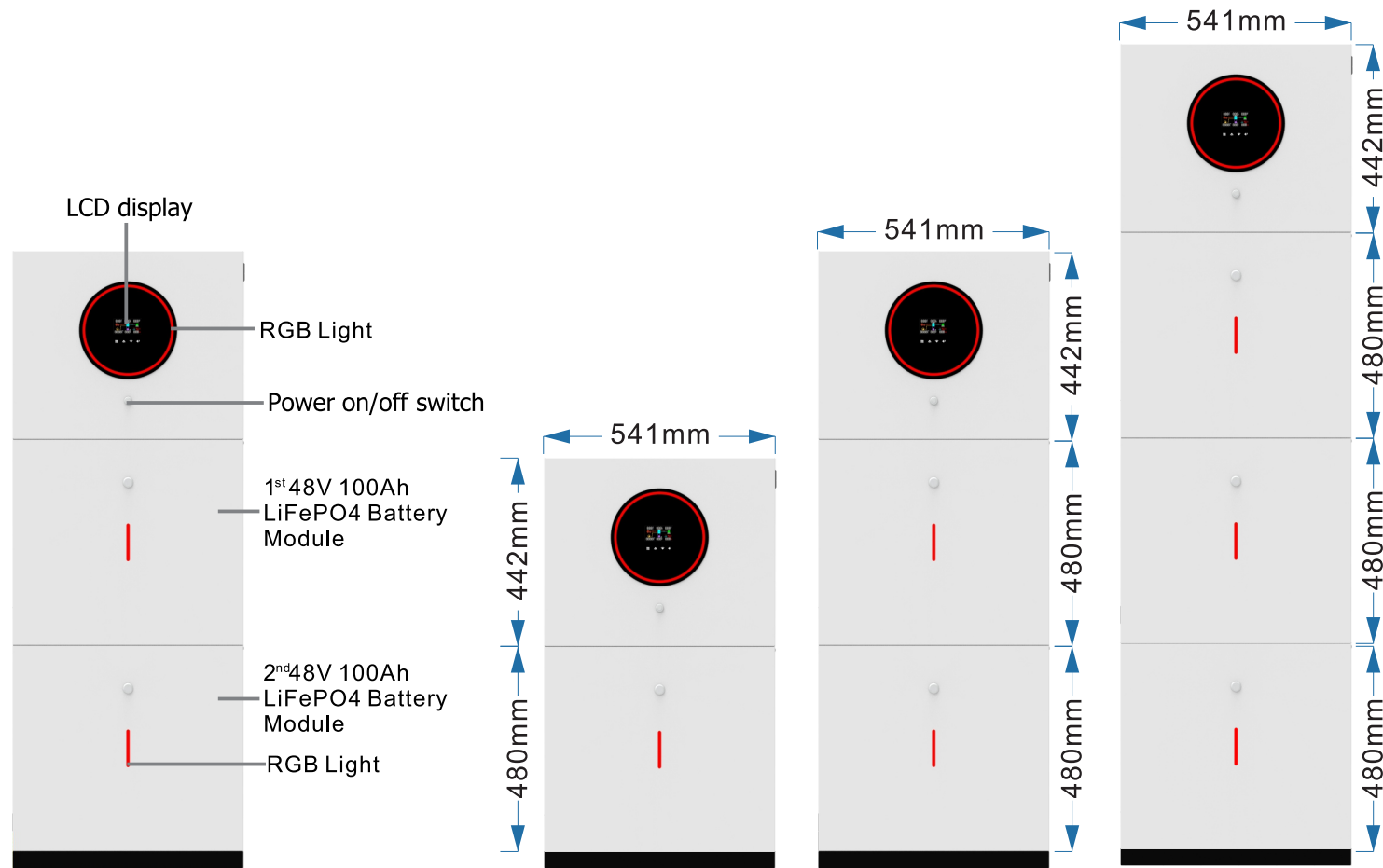
ENVIRONMENT

Humidity	5% to 95% Relative Humidity(Non ~ condensing)	
Operating Temperature	-10°C ~ 50°C	

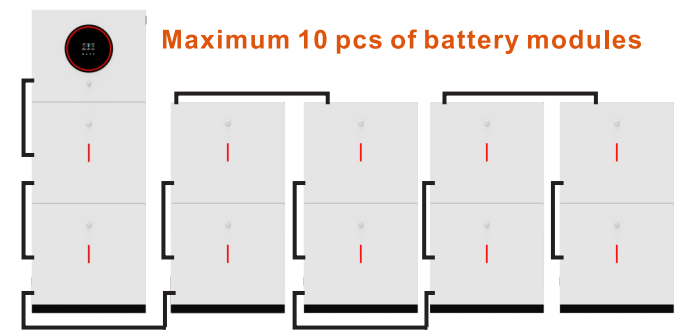
STANDARD

Compliance Safety	CE	
-------------------	----	--

Product Overview



BATTERY					
MODEL	25.6V100AH	25.6V200AH	48V100AH	48V200AH	
Normal charging voltage	29.2V	29.2V	54.75V	54.75V	
Maximum charging current	100A	100A	100A	100A	
Discharge termination voltage	21.6V	21.6V	40.5V	40.5V	
Recommended discharge termination voltage	22.4V	22.4V	42V	42V	
Maximum discharge current	100A	100A	100A	100A	
Single cell charging overvoltage protection	3.8V	3.8V	3.8V	3.8V	
Overvoltage protection for the whole battery	29.2V	29.2V	54.75V	54.75V	
Low voltage protection for single cell discharge	2.7V	2.7V	2.7V	2.7V	
Low voltage protection for whole group discharge	21.6V	21.6V	40.5V	40.5V	
Charge overcurrent protection	102~112A	102~112A	102~112A	102~112A	
Discharge overcurrent protection	102~122A	102~122A	102~122A	102~122A	
BMS Features	High accuracy cell level voltage, current measuring Over-charge, over-discharge protection Short-circuit protection Self-learning intelligent SOC calculation Cell level active equalization Multiple communication type Parallel connect function				
Working temperature	-15°C~+55°C				
Storage temperature	-20°C~+50°C				
Single Battery Module	Dimensions (mm)	541*480*190	541*480*190	541*480*190	541*480*190
	Weight (Kg)	27KG	54KG	54KG	54KG



System Diagram

