

volta

ELECTRIC

Unlimited Power

Residential Energy Storage



5.12kwh wall mounted lithium battery



Items	Specifications
Rated energy(kWh)	5.12KWh
Nominal Voltage(v)	51.2V
Working Voltage(v)	42V~58.4V
Nominal Capacity(Ah)	100Ah
Rated charge/discharge current(A)	50A/100A @25±2°C
Maximum charging current	100A@25±2°C
Maximum discharge current	100A @25±2°C
Working Temperature	0~40°C(Charge) -20~40°C(Discharge)
Humidity(%)	5~95%
Altitude Limited(m)	0-3000m
Weight(Kg)	48Kg±3kg
Dimension(mm)	580x460×172.4mm
Storage temperature and humidity	-10°C~35°C (Within one month of storage) 25±2°C (Within three months of storage) 65%±20%RH
Cycle life	6000 Cycles @25°C 80%DOD
Designed calendar life	15 years
Warranty	5 years + 5 years (extendable)
Cell	A grade new cell
IP grade	IP20
Communication mode	CAN&RS485

10,2kwh wall mounted Lithium-ion battery



Items(51.2V 200AH)	Specifications
Battery Configuration	2P16S
Rated voltage	51.2V
Operating voltage range	43.2V~58.4V
Rated Capacity	200Ah
Rated	10.24KWh
Standard charge/discharge current	50A @25±2°C
Maximum charging current	100A@25±2°C
Maximum discharge current	100A @25±2°C
Working temperature	0~40°C(Charge) -20~40°C(Discharge)
Storage temperature and humidity	-10°C~35°C(Storage within one month) 25±2°C(Storage within three month) 65%±20%RH
Dimensions (L x W x H)	(830)×(520)×(159)mm
weight	98Kg±3kg
Cycle life	6000 cycles @25°C 80%DOD
IP Rating	IP 2X
communication method	CAN&RS485
Altitude	0-3000m
Humidity range	5~80%

Hybrid Solar inverter



5.5K48-D120

PV Array

Max.PV Array Power	6600W
Max.PV Array Open-Circuit Voltage	500VDC
Start-up Voltage	100VDC
MPPT Operating Voltage Range	120-450VDC
Nominal Input Voltage	360VDC
Max.Input Current MPPT	20A
MPPT max Efficiency	99%

Battery

Battery Type	Li-ion /lead-acid
Nominal Battery Voltage	48V
Battery Voltage Range	41-58V
Max.AC Charging Current	40A
Max.PV Charging Current	100A
Max.Continuous Discharging Current	120A

AC Input

Nominal Voltage	120Vac (single phase) /240Vac (split phase)
Voltage Range	90-140Vac/180-280Vac
Frequency	50/60Hz (Auto following)
Max.Input Current	40A

Hybrid Solar inverter



5.5K48-D120

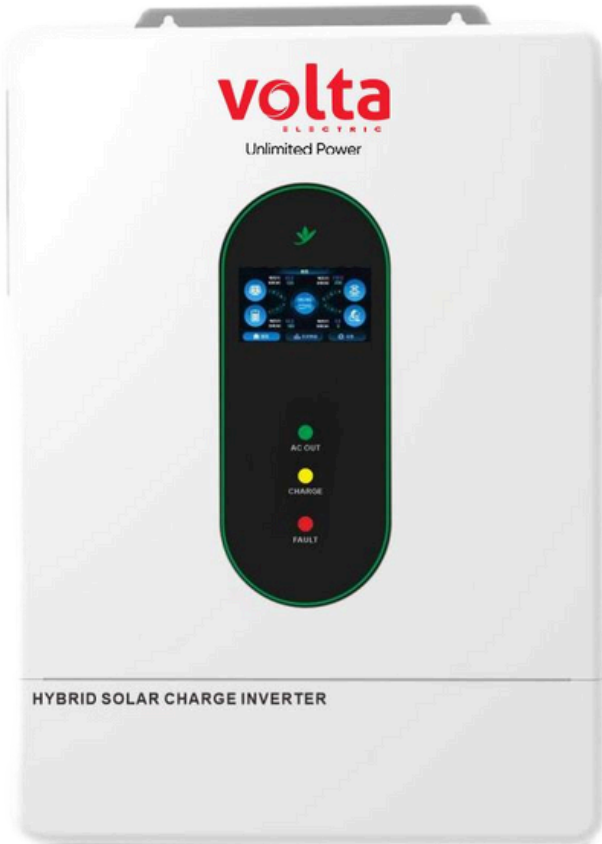
AC Output

Nominal Voltage	120Vac±5%/240Vac±5%
Output Voltage Waveform	Pure Sine Wave
Rated Output Power	5500VA/5500W
Peak Output Power	8000VA
Nominal Output Frequency	50/60Hz
Transfer Time	10ms
Efficiency(peak) PV to INV	96.5%
Efficiency(peak) BAT to INV	93.0%

General Data

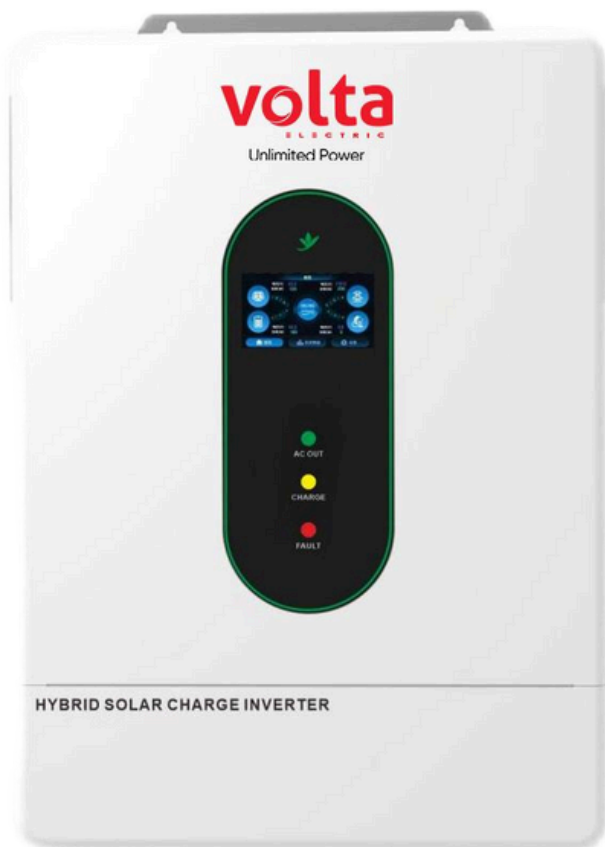
Operating Temperature Range	-10 -- +50°C
Relative Humidity	0~95%
Max. Operating Altitude	<4000m
Cooling Method	Intelligent Fan cooling
Display	LED + LCD
Communication with BMS	RS485
Communication with Cloud	WiFi/4G
Degree of Protection	IP21
Weight(kg)	9
Dimension(W*H*Dmm)	373*105*300
Mounting Method	Wall Mounted

48-500M Split phase dual channel



Mains mod	48100M200-500P	48100M200-500	48120M220-500P	48120M220-500
Allow quantity	1~6	0	1~6	0
Mains mod				
Nominal input voltage	120(L1/N, L2/N)/240Vac(L1/L2)			
Input phase voltage range	(85Vac~140Vac)±2%			
Frequency	50Hz/60Hz (Auto detection)			
Frequency range	47±0.3Hz~55+0.3Hz (50Hz);57±0.3Hz~6510.3Hz(60Hz);			
Max. efficiency	>95%			
Conversion time (bypass and inverter)	10ms (typical)			
Max. bypass phase overload current	2P, 63A/63A(L1/L2)			
Inverter mode				
Output voltage waveform	Pure sine wave			
Nominal output power (VA)/ (w)	Split phase: 10000VA/10000W Single phase:7200VA/7200W (limited by the wiring terminals)		Split phase: 12000VA/12000W Single phase:7200VA/7200W (limited by the wiring terminals)	
power factor	1			
Nominal output voltage (Vac)	120Vac (L1/N, L2/N)/240Vac(L1/L2)			
Output frequency range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz			
Max. efficiency	>91%			
Overload protection	(102% < load <110%) ±5%: report error and turn off the output after 5 minutes;(110% < load < 125%) ± 5%: report error and turn off the output after 10 seconds;Load >125% ±5%: report error and turn off the output after 5 seconds;			
Peak power	Split phase: 15000VA Single phase: 15000VA		Split phase: 18000VA Single phase: 18000VA	
Loaded motor capability	5HP		6HP	
Nominal battery input voltage	51.2V (Minimum starting voltage 44V)			
Battery voltage range	40.0Vdc~58.6Vdc±0.6Vdc (Undervoltage alarm/shutdown voltage/ overvoltage alarm / overvoltage recovery... settable on LCD screen)			
Save power mode	Load≤25W enter power-saving mode			

Split phase Inverter



Mains mod	48100M200-500P	48100M200-500	48120M220-500P	48120M220-500
Allow quantity	1~6	0	1~6	0
Mains charge				
Battery type	Lead acid or lithium battery			
Max. charge current (configurable)	120A		160A	
Charge voltage range	40 ~58.6Vdc			
Solar charge				
Max. PV open circuit voltage	500vdc			
PV operate voltage range	90vdc~500Vdc			
MPPT voltage range	90Vdc~450vdc			
Battery voltage range	40~58.6Vdc			
Max. PV input power/current	6000W×2/22A×2			
Charge current range (configurable)	200A			
Max. hybrid charge current (PV+AC)				
Max. hybrid charge current (configurable)	0-220A			
Certification				
Safety certification	UL STD.1741			
EMC certification level	FCC part15,CLASS B			
Operate temperature range	-10°C to 55C(>45°C derating)			
Storage temperature range	-25°C ~ 60°C			
Humidity range	5% to 95%(Conformal coating protection)			
Noise	≤60dB			
Cooling	Forced air cooling, variable speed of fan			
communicate	USB/RS485(WiFi/GPRS)/ Dry node control			
Dimensions (L*W*D)	620*450*132			
Weight (kg)	23.8			

All-in-one Machine



Model	548
Rated output power	5000W
Battery capacity	4800WH
Rated output frequency	50Hz
Rated battery voltage	48Vdc
Maximum photovoltaic charging current	30A
MPPT voltage range	120~450Vdc
Operating temperature range	Discharge: -15°C~55°C / Charge: 0°C~45°C
Peak power	10,000VA
Battery type	LiFePO4
Maximum photovoltaic input power	6000W
Input voltage range	European standard 170~240Vac; Us standard 90~140Vac
Class of protection	IP55
Heat dissipation mode	Intelligent air cooling
Display screen	Support
Operating key	Support
Size	Length 640*width 340*height 510(including wheeheight)
Weight	70KG

Designed in AZ, USA
Manufactured in China