All-in-one machine series

All-in-one Design

It adopts the design concept of integration, which integrates the modules of energy storage battery,PV controller, energy storage inverter,energy management unit and intelligent terminal control.

Endurance performance

Long cycle life;
Good deep discharge performance.

Efficient Power Generation

High-current instantaneous charge-discharge switching to improve power generation efficiency

Safe and Reliable

IP21 protection,
high precision leakage protection

Remote monitoring

Remotely control your energy needs and customize smart operational plans.

Smart charge

Allow homeowners to optimize their energy usage and reduce waste by managing peak demand periods.

PERFORMANCE SPECIFICATIONS

model	TG 5510-EY1A1	TG 5520-EY1A1
Inverter		
Maximum PV Input Power	6500 W	
Rated Output Power	5500 W	
Maximum Charging Power	5000 W	
Grid connection certification	CE-LVD/IEC62109-1/-2IEC62040-1;VDE-AR-N4105,VDE0126-1- AS4777.2;NRS097-2-1:2017;EN50438:2013;G99/1-6:2020	
PV INPUT (DC)		
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC	
Start-Up Voltage/Initial Feeding Voltage	116VDC/150VDC	
MPP Voltage Range	120VDC~450VDC	
Number of MPPTrackers/Maximum Input Current	2/2x13 A	
GRID OUTPUT (AC)		
Nominal Output Voltage	208/220/230/240VAC	
Output Voltage Range	184-264.5 VAC*	
Maximum Output Current	23.9 A*	
Maximum Conversion Effificiency (DC/AC)	96%	
European Effificiency @ Vnominal	95%	
AC INPUT		
AC Start-Up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	170-280 VAC	
Maximum AC Input Current	40 A	
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	208/220/230/240VAC	
Effificiency (DC to AC)	93%	
BATTERY Technical Specifications		
Nominal DC Voltage	51.2 VDC	
Battery Capacity	200Ah	400Ah(200Ah*2)
Maximum operating current	120 A	200 A
Store energy	10.24KWH	20.48KWH
Voltage Range(Vdc)	45-56 V	
Protection	BMS, Breaker,Inverter	
Inner Resistance	<20 m Ohm	
Cycle Life	6000Cycles/90%DOD@25-C,EOL60%	
Security certification	UN38.3,MSDS,IEC62619(CB),CE-EMC	
System parameters		
Dimension,D x W x H	214*621*1205(mm)	214*621*1755(mm)
Net Weight	Approx:140kg	Approx235kg
Operating temperature/humidityrange	0-80%RH	
Protocol	WIFI and RS232	