



Off-Grid ESS Series

Product Highlights

Segment Load Management

Two level output management, energy keeps more for important load.

WidePVRange

60-500Vdc, dual booster design.

Fast Charge

Max 120A charge current.

PF 1.0

KVA=KW More load carrying.

MODEL	TG-51100-S1	TG-51100-S2	TG-51100-S3	TG-51100-S4
PHASE	1-Phase In/1-Phase Out			
Max. PV Input Power	6500W			
Max. Main Output Power	6200VA/6200W			
Max. Second Output Power	6200VA/6200W			
Max. Total Output Power	6200VA/6200W			
AC INPUT				
Nominal Voltage	230VAC			
Acceptable Voltage Range	170-280VAC; 90-280VAC			
Frequency	50/60Hz(Auto Sensing)			
AC OUTPUT				
Nominal Voltage	220/230VAC+5%			
Surge Power	12400VA			
Frequency	50/60Hz			
Waveform	Pure Sine Wave			
Dual Outputs	Yes			
Transfer Time	10ms(For Personal Computer); 20ms(For Home Appliances)			
Peak Efficiency	94%			
Overload Protection	5s@≥140%load; 10s@100%~140%load			
Admissible Power Factor	0.6~1(Inductive or Capacitive)			
SOLAR CHARGER & AC CHARGER				
Solar Charger TYPE	MPPT			
Max. PV Array Power	6500W			
Max. PV Array Open Circuit Voltage	500VDC			
PV Array MPPT Voltage Range	60VDC~500VDC			
Max. Solar Input Current	1/27A			
Max. Solar Charge Current	120A			
Max. AC Charge Current	80A			
Max. Charge Current	120A			
BATTERY DATA				
Rate Voltage(Vdc)	51.2			
Cell combination	16S1P*1	16S1P*2	16S1P*3	16S1P*4
Rate capacity(Ah)	100	200	300	400
Energy Storage(kWh)	5.12	10.24	15.36	20.48
Discharge Cut-off Voltage(VDC)	43.2			
Charge Cut-off Voltage(VDC)	57.6			