ALL-IN-ONE MACHINE SERIES

Plug & Play

Plug & Play stackable design, 10 minutes fast commissioning

Endurance performance

Long cycle life;
Good deep discharge performance.

High PV acceptance

40~600Vdc,
2X of rated power input

Active Safety

AFCI active
arcing 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-ESS5-5LV1	TG-ESS5-5LV2	TG-ESS5-5LV3	TG-ESS6-5LV1	TG-ESS6-5LV2	TG-ESS6-5LV3
PV SPECIFICATIONS						
Max. PV input power	10000W			11000W		
Nominal DC voltage/ Voc	360Vdc/600Voc					
Start-up/ Min. operation voltage	50Vdc/40Vdc					
No. of MPPTs/ Strings	2/1					
Max. PV input/ Short circuit current	16A/ 20A					
INPUT/ OUTPUT (AC)						
Max. AC input power from grid	10000VA			11000VA		
Rated/ Max. AC output power	5000W/5000VA			6000W/6000VA		
Rated AC output current (at 230V)	21.8A			26.1A		
Max. AC output current	22.8A			27.3A		
Rated AC voltage	220V/230V/240V					
AC voltage range	154V~276V					
Rated grid frequency	50Hz/60Hz					
Grid frequency range	45~55Hz/ 55~65Hz					
Harmonic (THD)	< 3%					
Power factor at rated power	> 0.99					
Adjustable power factor	adj.0.8.overexcited/leading to 0.8 underexcited/lagging					
Grid type	Single phase					
Rated output power for backup load	5000W			6000W		
Frequency range in off grid mode	50Hz/60Hz(±0.5%)					
BATTERY DATA						
Rate voltage(Vdc)	51.2					
Cell combination	16S1P*1	16S1P*2	16S1P*3	16S1P*1	16S1P*2	16S1P*3
Rate capacity(AH)	100	200	300	100	200	300
Energy storage(KWH)	5.12	10.24	15.36	5.12	10.24	15.36
Cycle life	6000 cycles @80% DOD, 0.5C					
Charge voltage	57.6V					
Max. charge/discharge current(A)	100					
Discharge cut-off voltage(VDC)	43.2					
Charge cut-off voltage(VDC)	58.4					
ENVIORNMENT						
Charge temperature	0°C to 55°C@60±25% Relative Humidity					
Discharge temperature	-20°C to 55°C@60±25% Relative Humidity					
Storage temperature	-20°C to 55°C@60±25% Relative Humidity					
MECHANICAL						
IP class	IP65					
Material system	LiFePO4					
Case material	Metal					
Case type	All in One Stack					
Dimensions L*W*H(mm)	640*205*1008	640*205*1350	640*205*1692	640*205*1008	640*205*1350	640*205*1692
Package dimension L*W*H(mm)	760*725*345+ 760*335*450*1	760*725*345+ 760*335*450*2	760*725*345+ 760*335*450*3	760*725*345+ 760*335*450*1	760*725*345+ 760*335*450*2	760*725*345+ 760*335*450*3
Net weight(kg)	25+46*1	25+46*2	25+46*3	25+46*1	25+46*2	25+46*3
Gross weight(kg)	30+51*1	30+51*2	30+51*3	30+51*1	30+51*2	30+51*3
COMMUNICATION						
Protocol(Optional)	RS485/RS232/WLAN Optional					
CERTIFICATES						
System	UN38.3,MSDS,EN,IEC,NRS,G99					
Cell	UN38.3,MSDS,IEC62619,CE,UL1973,UL2054					