Single Phase ESS Series

CE MSDS IEC TÜVRheinland ISO UN38.3

Product Highlights

Plug & Play

Plug & Play stackabledesign,
10 minutes fast commissioning.

Active Safety

AFCl active arcing protection.

High PV acceptance

40~600Vdc, 2X of rated power input.

More Options

3*5.12kWH battery module + Optional battery stack.

MODEL	TP-PA6k5LV	TP-PA6k10LV	TP-PA6k15LV
PV Specifications			
Max. PV input power	11000W		
Nominal DC voltage/ Voc	360Vdc/600Voc		
Start-up/ Min. opcration voltagc	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	11000VA		
Rated/ Max. AC output power	6000W/6000VA		
Rated AC output current (at 230V)	26.1A		
Max. AC output current	27.3A		
Rated AC voltage	220V/230V/240V		
AC voltage range	154V~276V		
Ratod grid frcqucncy	50Hz/60Hz		
Grid frequency range	45~55Hz/ 55~65Hz		
Harmonic (THD)	< 3%		
Power factor at rated power	> 0.99		
Adjustable power factor	0.8leading...0.8lagging...		
Grid type	**Single phase**		
Rated output power for backup load	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
Rate capacity(AH)	**100**	**200**	**300**
Energy storage(KWH)	**5.12**	**10.24**	**15.36**
Cycle life	**25±2**℃, 0.5C/0.5C, EOL70%⩾6000		
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**℃ ~ 50℃@60 ± 25% Relative Humidity		
Discharge temperature	-20℃ ~ 50℃@60 ± 25% Relative Humidity		
Storage temperature	-20℃ ~ 50℃@60 ± 25% Relative Humidity		
Mechanical			
IP class	**IP65**		
Material system	LiFePO4		
Case material	Metal		
Case typc	All in One Stack		
Product dimension L*W*H(mm)	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
Net weight(kg)	25+46*1	25+46*2	25+85*3
Gross weight(kg)	30+51*1	30+51*2	89+92*3
Communication			
Protocol(Optional)	RS485/RS232/WLAN Optional		
Certificates			
	EN, IEC, NRS, G99, UN38.3, MSDS, IEC62619, CE		