

Stackable Solar System



FS5KS512X

- Built-in 80A Solar Charger
- Wide MPPT Range 120-500V
- DUAL** Dual AC Output
- Lithium Battery Activation
- WiFi Monitoring
- Feed-in to Grid
- Stackable Battery

System Diagram



Specifications

Model	FS5KS5121	FS5KS5122	FS5KS5123
	1 Battery Module	2 Battery Module	3 Battery Module
PV Input			
Rated Voltage (V)		350-360	
MPPT Voltage Operation Range (V)		120-500	
Max Input Power (W)		6000	
Max Input Voltage (V)		500	
Max Input Current (A)		18	
AC Input & Output (Grid)			
Max AC Input Current (A)		40	
Rated Output Power (W)		5000	
Max Output Power (VA)		5000	
Rated Output Current (A)		21.7	
Max Output Current (A)		23.9	
Rated Output Voltage (V)		220/230/240	
THDI		<3% (Nominal Power)	
Emergency Output			
Max Output Power (VA)		5000	
Peak Output Power (VA)		10000	
Max Output Current (A)		16-26.1	
Rated Output Voltage (V)		220/230/240 (+/-0.2%)	
Output Frequency (Hz)		50/60 (+/-0.2%)	
THDU		<2%	
Transfer Time (ms)		<10	
Efficiency			
Max Battery Discharge Efficiency		91%	
Max Charge Efficiency (PV to battery)@ Full load		98.50%	
System Parameter			
Dimensions (W*D*H)	674*170*775mm	674*170*1135mm	674*170*1535mm
Work Temperature Rang (°C)		-20 ~ +60 (Derating @45 °C)	
Storage Temperature (°C)		-20 ~ +45	
Storage RH (%)		5%~90% (non-condensing)	
Altitude (m)		<2000	
Ingress Protection		IP21	
Display		LCD/APP	
Cooling Method		Natural cooling	
Inverter Topology		Non-isolated	
Installation		Floor-mount	
Battery Pack Specification			
Cell Type		LFP	
Cell Configuration		16S1P	
Nominal Voltage (V)		51.2	
Nominal Capacity (Ah)		100	
Nominal Energy / Module (Wh)		5120	
System Energy (Wh)	5120 (1 Module)	10240 (2 Modules)	15360 (3 Modules)
Charge Voltage (V)		58	
Max Charging Current (A)		100	
Max Discharging Current (A)		100	
Charge Temperature Range (°C)		0~45	
Discharge Temperature Range (°C)		-20~60	
Storage Temperature Range (°C)		-20~45	
Humidity (%)		5~95%RH	
Cooling Method		Natural cooling	
Cycle Life (Time)		≥ 6000 (80% DOD, Remaining 80%)	
Communication		CAN & RS485	
Weight (kg)		55	