

Low Voltage
All-in-one system



HY5KS5 (by 5kW=67kg / 10kW=117kg / 15kW=167kg)

5.12kWh / 10.24kWh / 15.36kWh
Low Voltage Single Phase Off-grid All-in-one



Built-in 80A
Solar Charger

DUAL

Dual
AC Output



WiFi
Monitoring



Wide MPPT
Range 120-500V



Lithium Battery
Activation

Technical Specification

MODEL	HY5KS5121	HY5KS5122	HY5KS5123
	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) (mm)	674*170*775	674*170*1135	674*170*1535
Work temperature Rang (°C)		-20 ~ +60 (Derating @45 °C)	
Storage temperature (°C)		-20 ~ +45	
Storage RH (%)		5% ~ 90% (non-condensing)	
Altitude(m)		<2000	
Protection class		IP21	
Display		LCD/APP	
Cooling		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)		102	
Nominal energy/ module (Wh)		5222	
System energy (Wh)	5222 (1 Module)	10444 (2 Module)	15666 (3 Module)
Charge voltage (V)		58	
Max charging current (A)		100	
Max discharging current (A)		100	
Charge temp range (°C)		0 ~ 45	
Discharge temp range (°C)		-20 ~ 60	
Storage temp range (°C)		-20 ~ 45	
Humidity (%)		5 ~ 95%RH	
Cooling		Natural cooling	
Cycle life (time)		≥6000 (80% DOD, Remaining 80%)	
Communication		CAN & RS485	
Weight (kg)	67	117	167
STANDARD COMPLIANCE			
Standard	EN/IEC 61000-6-1/-3, UN38.3, RoHS		