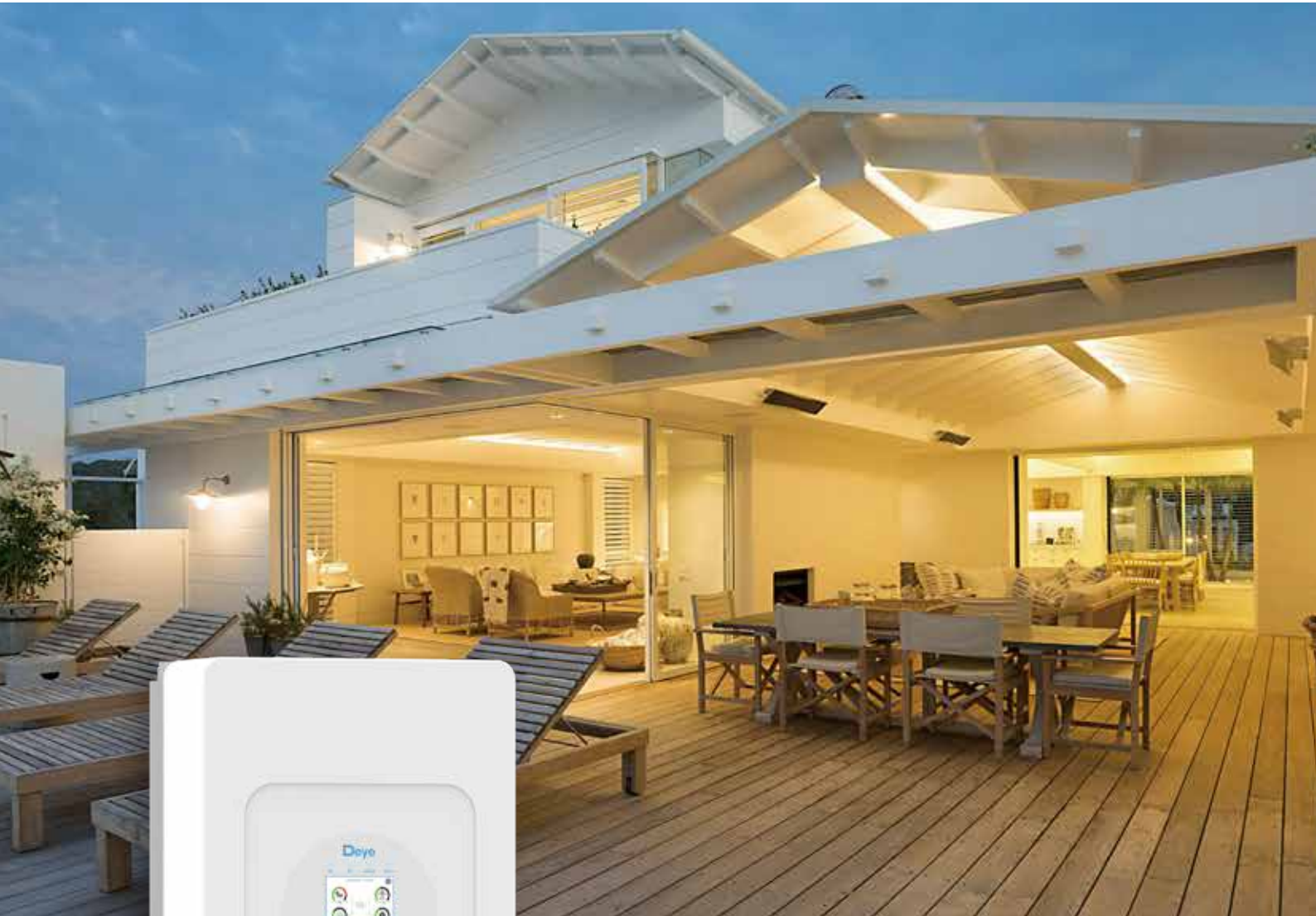


Single Phase Hybrid Inverter

SUN-8K-SG05LP1-AU



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system



Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Max. charging/discharging current of 190A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

Deye

Stock Code: 605117.SH

Model		SUN-8K-SG05LP1-AU
Battery Input Data		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range (V)	40-60	
Max. Charging Current (A)	190	
Max. Discharging Current (A)	190	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
Number of Battery Input	1	
PV String Input Data		
Max. PV access power(W)	16000	
Max. DC Input Power (W)	12000	
Rated PV Input Voltage (V)	500	
Start-up Voltage (V)	125	
MPPT Voltage Range (V)	150-425	
Rated DC Input Voltage(V)	370	
Max. Operating PV Input Current (A)	26+26	
Max. Input Short-Circuit Current (A)	39+39	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2	
AC Output Data		
Rated AC Output Active Power (W)	8000	
Max AC Output Active Power (W)	8000	
AC Output Rated Current (A)	34.8	
Max. AC Output Current (A)	34.8	
Max. Continuous AC Passthrough (A)	50	
Peak Power (off grid)	2 time of rated power, 10 S	
Power Factor Adjustment Range	0.8 leading to 0.8 lagging	
Rated Input/Output Voltage/Range (V)	230 /240 0.85Un-1.1Un	
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz	
Grid Connection Form	L+N+PE	
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)	
DC Current Injection	<0.5% In	
Efficiency		
Max. Efficiency	97.60%	
Euro Efficiency	96.50%	
MPPT Efficiency	99.90%	
Protection		
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level	
Over Voltage Category	TYPE II(DC), TYPE II(AC)	
Interface		
Communication Interface	RS485/CAN	
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)	
General Data		
Operating Temperature Range ()	-40 to +60°C, >45°C derating	
Permissible Ambient Humidity	0-100%	
Permissible Altitude	2000m	
Noise (dB)	<30 dB	
Inverter Topology (solar/battery)	Transformerless/ HF Transformer	
Over Voltage Category	OVC II(DC), OVC III(AC)	
Weight (kg)	24.9	
Cabinet size (mm)	330W x 580H x232D (Excluding connectors and brackets)	
Protection Degree	IP65	
Type of Cooling	Intelligent Air Cooling	
Warranty	10 Years	
Grid Regulation	AS/NZS 4777.2	
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	