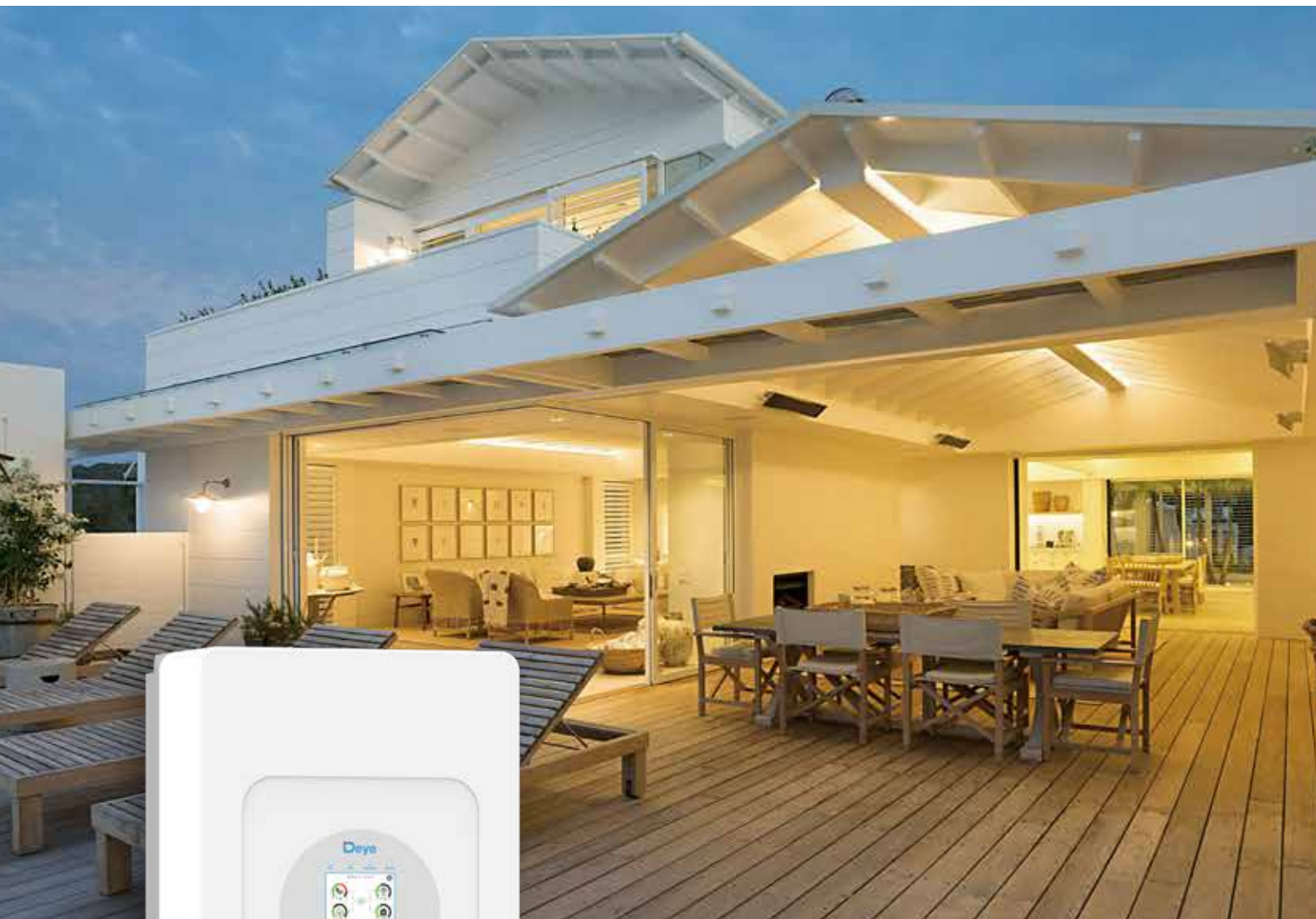


Single Phase Hybrid Inverter

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. PV Input Power (W)	12000
Max. PV Input Voltage (V)	500
Start-up Voltage (V)	125
MPPT Voltage Range (V)	150-425
Rated PV 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 Input/Output Data	
Rated AC Input/Output Active Power (W)	8000
Max. AC Input/Output Apparent Power (VA)	8000
Rated AC Input/Output Current (A)	34.8
Max. AC Input/Output Current (A)	34.8
Max. Continuous AC Passthrough (grid to load) (A)	50
Peak Power (off grid)	2 time of rated power, 10S
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 Current Harmonic Distortion THDi	<3%
DC Current Injection	<0.5% In
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	>99%
Protection	
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Insulation Impedance Detection, Arc Fault Circuit Interrupter (optional), DC Switch, Anti-islanding Protection(Active Frequency shift) , Residual Current Detection
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Interface	
Communication Interface	WIFI,RS485,CAN
LCD/LED Display	LCD
General Data	
Operating Temperature Range (°C)	-40°C to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	2000m
Noise (dB)	<30 dB
Inverter Topology	Non-Isolated
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
Protection Level	Class I
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