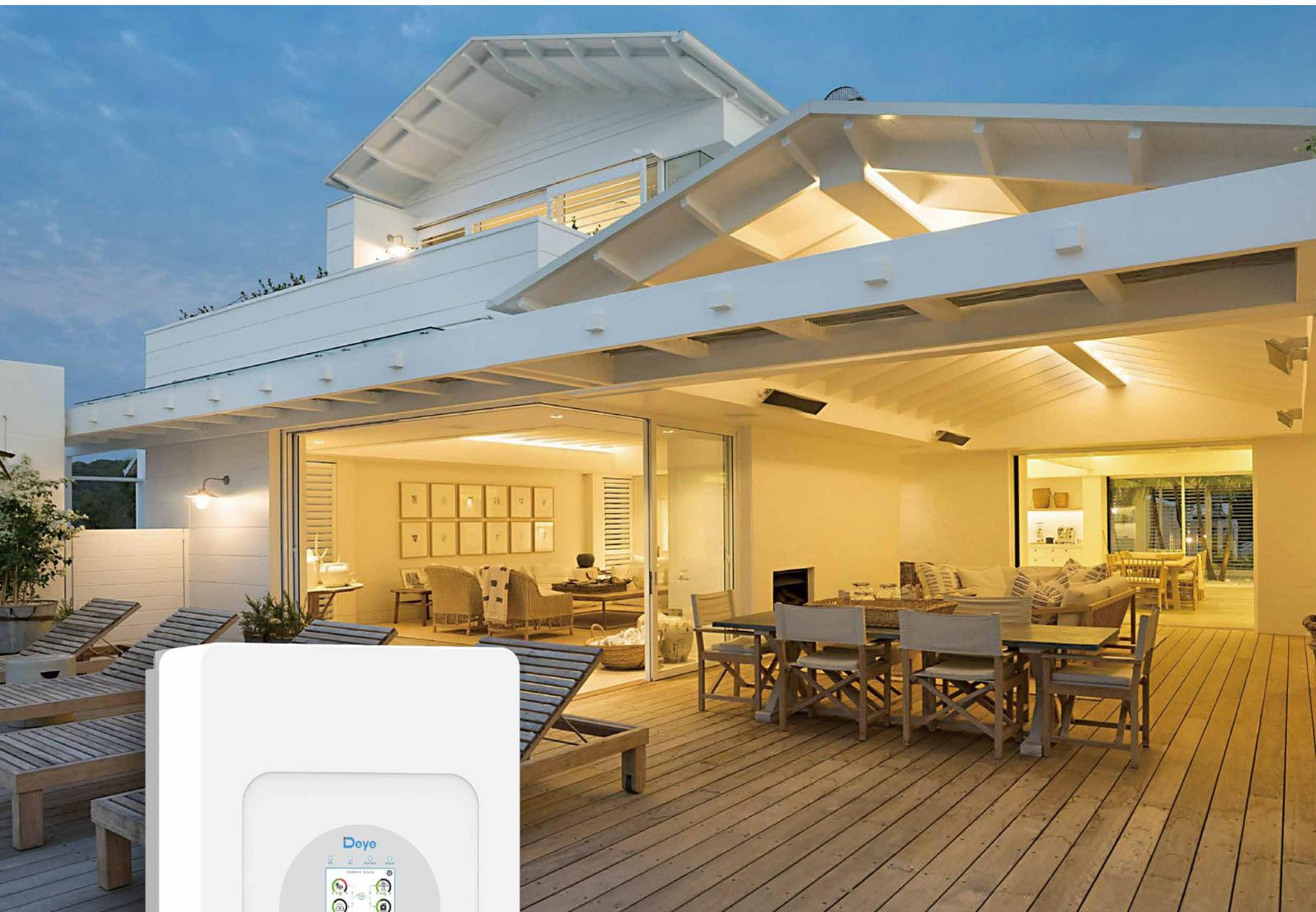


# Single Phase Hybrid Inverter

SUN-7.6/8K-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 190 A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

**Deye**

Stock Code: 605117.SH

Model	SUN-7.6K-SG05LP1-AU	SUN-8K-SG05LP1-AU
<b>Battery Input Data</b>		
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	
<b>PV String Input Data</b>		
Max. PV access power(W)	15200	16000
Max. PV Input Power (W)	11400	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	
<b>AC Input/Output Data</b>		
Rated AC Input/Output Active Power (W)	7600	8000
Max. AC Input/Output Apparent Power (VA)	7600	8000
Rated AC Input/Output Current (A)	33	34.8
Max. AC Input/Output Current (A)	33	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	
<b>Efficiency</b>		
Max. Efficiency	97.60%	
Euro Efficiency	96.50%	
MPPT Efficiency	>99%	
<b>Protection</b>		
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)	
<b>Interface</b>		
Communication Interface	WIFI,RS485,CAN	
LCD/LED Display	LCD	
<b>General Data</b>		
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	