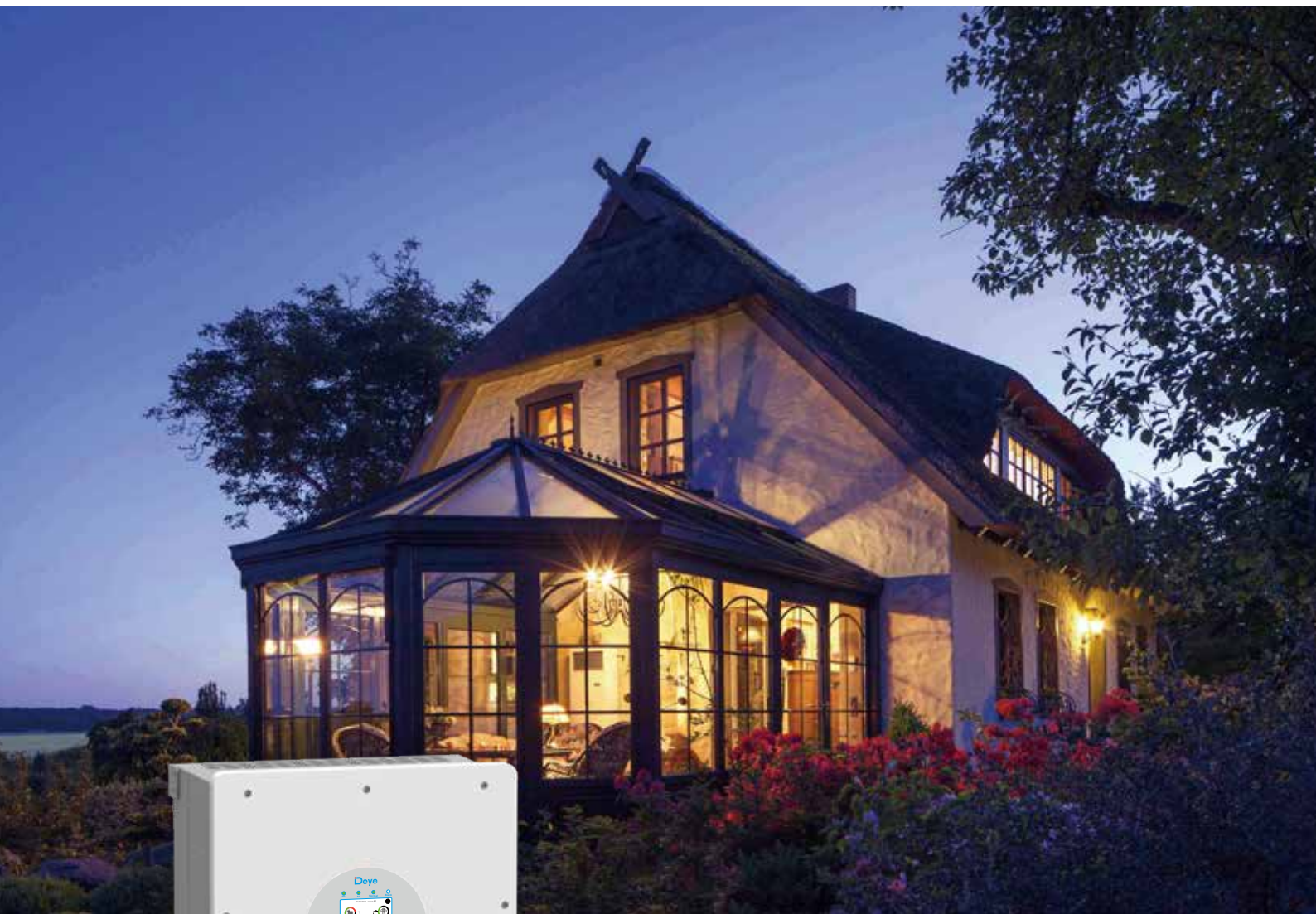


Hybrid Inverter

SUN-12/14/16K-SG01LP1-EU



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system



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



Max. charging/discharging current of 290A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

Deye

Stock Code: 605117.SH

Technical Data

Model	SUN-12K-SG01LP1-EU		SUN-14K-SG01LP1-EU	SUN-16K-SG01LP1-EU
Battery Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	220	250	290	
Max. Discharging Current (A)	220	250	290	
External Temperature Sensor	Yes			
Charging Curve	3 Stages / Equalization			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
PV String Input Data				
Max. DC Input Power (W)	15600	18200	20800	
Max. DC Input Voltage (V)	500			
Start-up Voltage (V)	125			
MPPT Range (V)	150-425			
Rated DC Input Voltage (V)	370			
PV Input Current (A)	26+26+26			
Max. PV I _{SC} (A)	44+44+44			
No.of MPP Trackers	3			
No.of Strings per MPP Tracker	2+2+2			
AC Output Data				
Rated AC Output Active Power (W)	12000	14000	16000	
Max AC Output Active Power (W)	13200	15400	17600	
Rated AC Output Current (A)	54.5/52.2	63.6/60.9	72.7/69.6	
Max AC Output Current (A)	60/57.4	70/67	80/76.5	
Max. Continuous AC Passthrough (A)	100			
Peak Power (Off Grid)	2 time of rated power, 10 S			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Power Factor	1			
Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac			
Grid Type	Single Phase			
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)			
DC Current Injection	<0.5% I _n			
Backup Data				
Backup Power (W)	10000	12000	14000	
Backup Rated Current (A)	45.5/43.5	54.5/52.2	63.6/60.9	
Backup UPS	4ms Automatic switchover time			
Efficiency				
Max. Efficiency	97.60%			
Euro Efficiency	96.50%			
MPPT Efficiency	99.90%			
Protection				
Integrated	Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection			
Over Voltage Category	DC Type II/AC Type III			
Certifications and Standards				
Grid Regulation	IEC 61727, IEC 62116, AS 4777.2, NRS 097			
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			
General Data				
Operating Temperature Range ()	-40-60°C, >45°C Derating			
Cooling	Smart Cooling			
Noise (dB)	≤30 dB			
Communication with BMS	RS485; CAN			
Weight (kg)	48.5			
Cabinet Size (WxHxD mm)	464×763×282 (Excluding Connectors and Brackets)			
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years (10 Years Optional)			