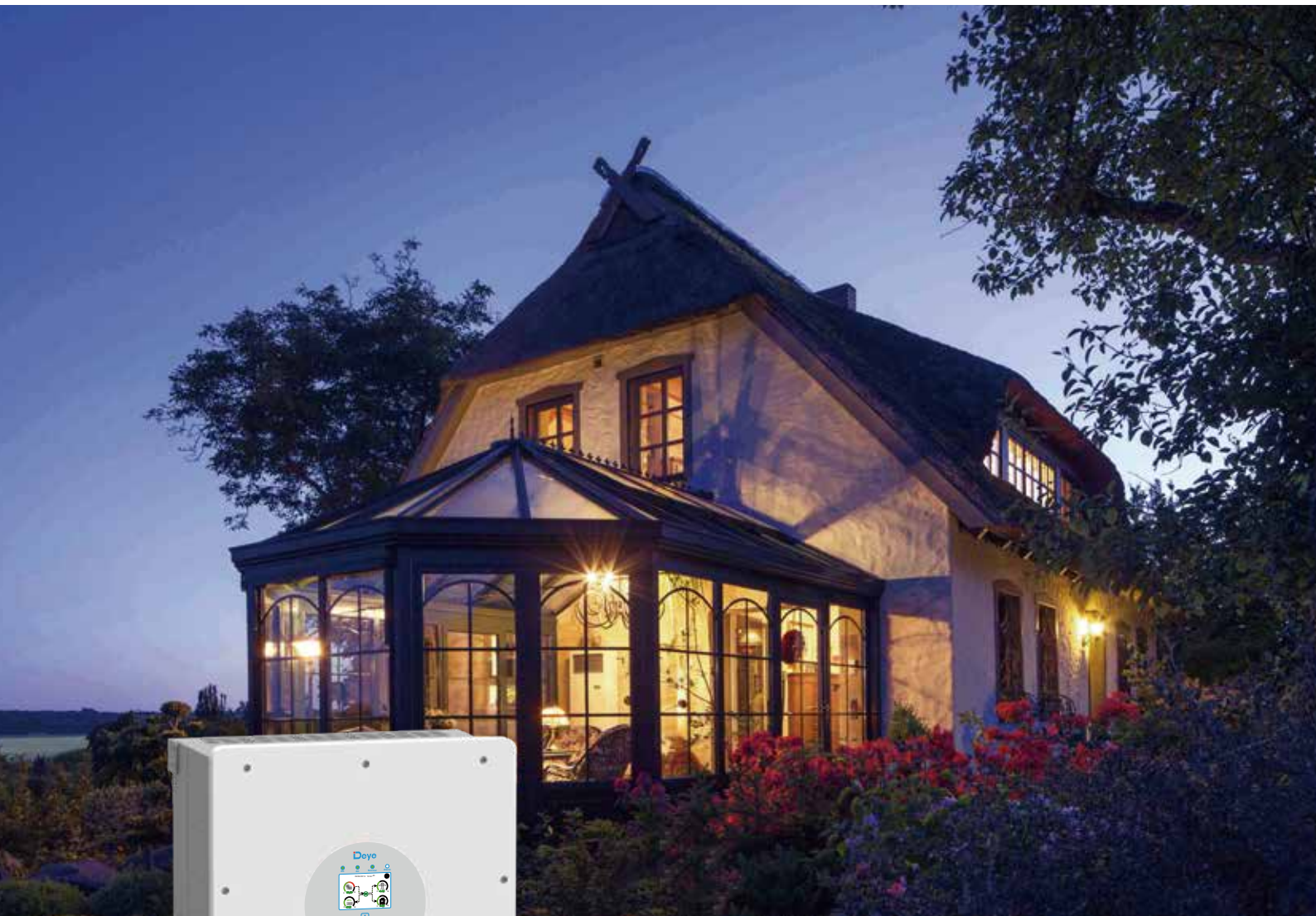


# Hybrid Inverter

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



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system

16

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

290

Max. charging/discharging current of 290A

6

6 time periods for battery charging/discharging



Support storing energy from diesel generator

**Deye**

Stock Code: 605117.SH

Model	SUN-12K-SG01LP1-AU	SUN-14K-SG01LP1-AU	SUN-16K-SG01LP1-AU
<b>Battery Data</b>			
Battery Type	Lead-acid or Li-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		
<b>PV String Input Data</b>			
Max. PV Input Power (W)	18000	21000	24000
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 <sub>SC</sub> (A)	44+44+44		
No.of MPP Trackers	3		
No.of Strings per MPP Tracker	2		
<b>AC Output Data</b>			
Rated AC Output Power (W)	12000	14000	16000
Max AC Output Active Power (W)	12000	14000	16000
Rated AC Output Current (A)	52.2	60.9	69.6
Max. AC Output Current (A)	52.2	60.9	69.6
Max. Continuous AC Passthrough (A)	100		
Peak Power (off grid)	2 time of rated power, 5 S		
Power Factor	0.8 leading to 0.8 lagging		
Output Frequency and Voltage	50/60Hz; L/N/PE 230/400, 240/415Vac		
Grid Connection Form	L+N+PE		
Total Harmonics Current Distortion (THDi)	< 3% ( of nominal power )		
DC current injection	<0.5% I <sub>n</sub>		
<b>Backup Data</b>			
Backup Power (W)	10000	12000	14000
Backup Rated Current (A)	45.5/43.5	54.5/52.2	63.6/60.9
Backup UPS	6ms Automatic switchover time		
<b>Efficiency</b>			
Max. Efficiency	97.60%		
Euro Efficiency	96.50%		
MPPT Efficiency	99.90%		
<b>Protection</b>			
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		
<b>Certifications and Standards</b>			
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		
<b>General Data</b>			
Operating Temperature Range ( )	-40 to +60 , >45 derating		
Cooling	Smart cooling		
Noise (dB)	<30 dB		
Communication with BMS	RS485; CAN		
Weight (kg)	48		
Size (mm)	464W×763H×282D ( Excluding connectors and brackets)		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy		