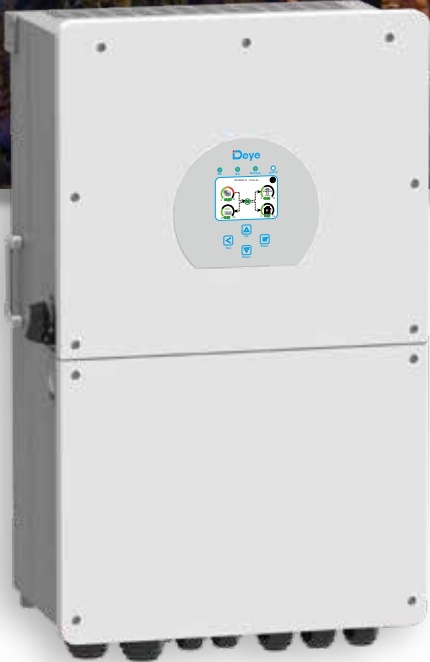
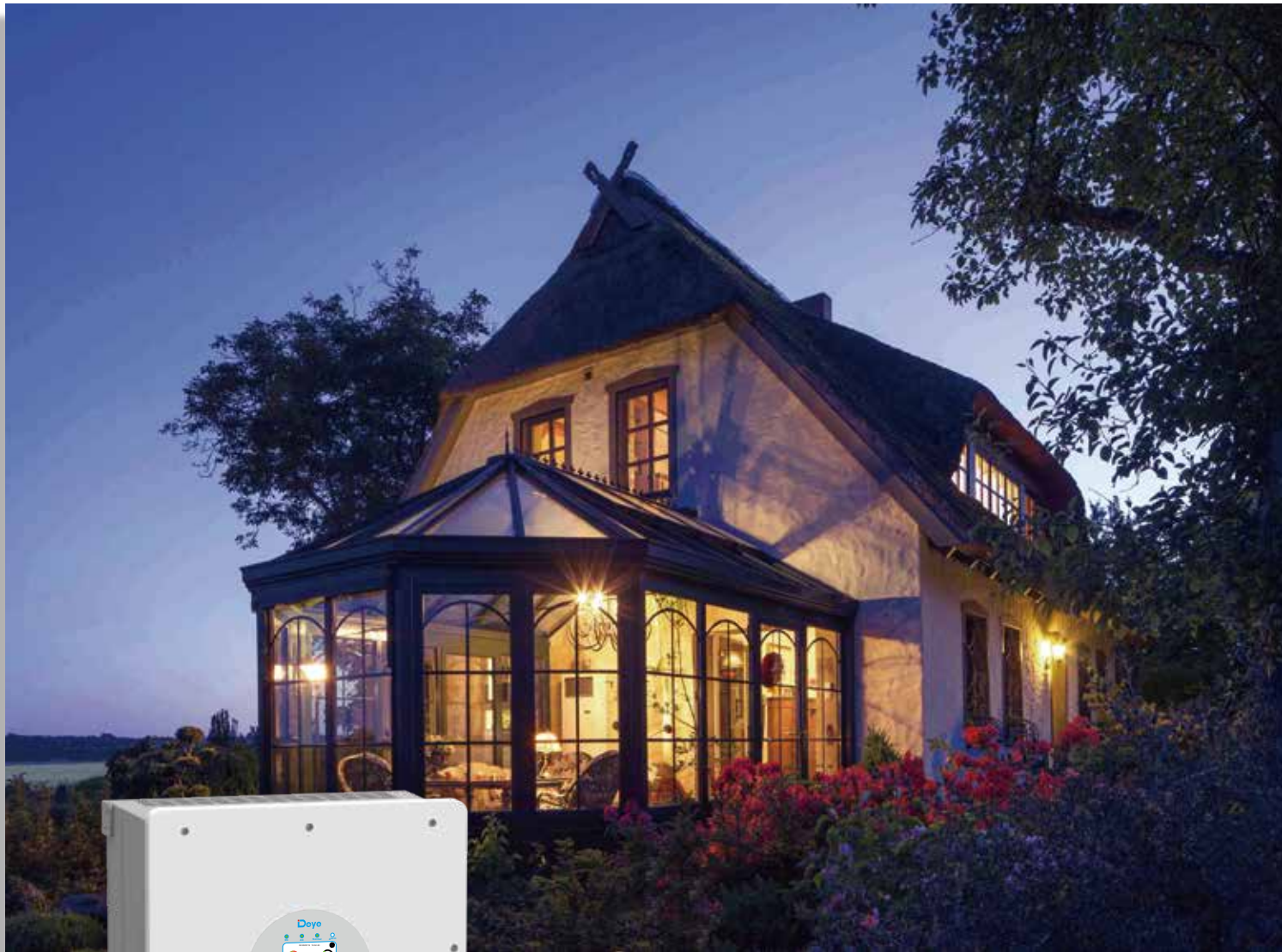


Hybrid Inverter

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



 Colorful touch LCD, IP65 protection degree

 DC couple and 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

Technical Data

Model	SUN-12K-SG01LP1-EU		SUN-14K-SG01LP1-EU		SUN-16K-SG01LP1-EU	
Battery Data						
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					
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					
AC Output Data						
Rated AC OutputPower (W)	12000	14000	16000			
AC Output Rated Current (A)	54.5/52.2	63.6/60.9	72.7/69.6			
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 220/230Vac (single phase)					
Grid Type	Single Phase					
Total harmonic Distortion(THD)	< 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	6ms Automatic switchover time					
Efficiency						
Max. Efficiency	97.60%					
Euro Efficiency	96.50%					
MPPT Efficiency	99.90%					
Integrated	PV Input Lightning Protection, 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					
Output Over Voltage Protection	DC Type II/AC Type III					
Certifications and Standards						
Grid Regulation	VDE4105 IEC61727/62116 VDE0126 AS4777.2 CEI 0 21, EN50549-1, G98 G99 C10-11, UNE217002, NBR16149/NBR16150					
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					
General Data						
Operating Temperature Range (°C)	-40~60°C, >45°C derating					
Cooling	Smart cooling					
Noise (dB)	<30 dB					
Communication with BMS	RS485; CAN					
Weight (kg)	48.5					
Size (mm)	464W×798.4H×300D					
Protection Degree	IP65					
Installation Style	Wall-mounted					
Warranty	5 years					
Features						
Max. Number of Parallel (PCS)	16					