

# Deye 16KW Hybrid Inverter

SUN- 16 K-SG01LP1-EU



The Deye logo, consisting of the word "Deye" in a blue, sans-serif font. The letter "D" is stylized with a red square at the top left corner.



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

Stock Code: 605117.SH

Model	SUN-16K-SG01LP1-EU
<b>Battery Data</b>	
Battery Type	Lead-acid or Li-Ion
Battery Voltage Range (V)	40~60
Max. Charging Current (A)	290
Max. Discharging Current (A)	290
UPS Power (W)	16000
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. DC Input Power (W)	20800
Max. DC Input Voltage (V)	500
Start-up Voltage (V)	150
MPPT Range (V)	150-425
Rated DC Input Voltage (V)	370
PV Input Current (A)	26+26+26
Max. PV ISC (A)	44+44+44
Number of MPPT / Strings per MPPT	3/2
<b>AC Output Data</b>	
Rated AC Output (W)	16000
AC Output Rated Current (A)	69.6
Max. Continuous AC Passthrough (A)	100
Peak Power (offgrid)	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
DC injection current (mA)	<0.5%1n
<b>Backup Data</b>	
Backup Power (W)	14000
Backup Rated Current (A)	60.9
Backup UPS	6ms Automatic switchover time
<b>Efficiency</b>	
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
<b>Certifications and Standards</b>	
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11
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(°C)	-45~60°C, >45°C derating
Cooling	Smart cooling
Noise (dB)	<30 dB
Communication with BMS	RS485; CAN
Weight (kg)	51.5
Size (mm)	464W×798.4H×300D
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years
<b>Features</b>	
Max. Number of Parallel (PCS)	16