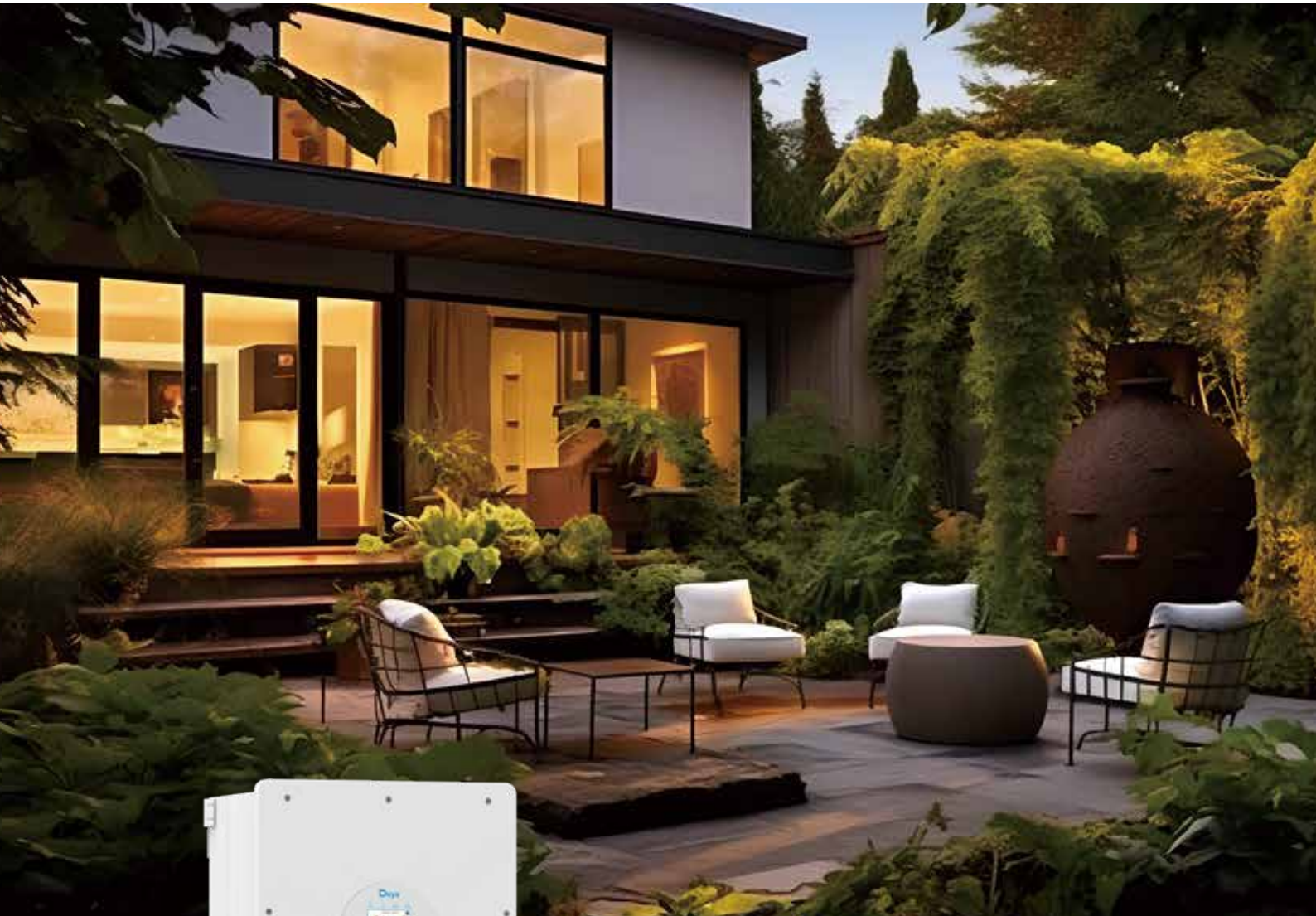


# Single Phase Hybrid Inverter

SUN-18K-SG01LP1-EU-AM3-P



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system

16

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

380

Max. charging/discharging current of 380A

6

6 time periods for battery charging/discharging



Support storing energy from diesel generator

**Deye**

Stock Code: 605117.SH

Model		SUN-18K-SG01LP1 -EU-AM3-P
<b>Battery Input Data</b>		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range (V)	40-60	
Max. Charging Current (A)	380	
Max. Discharging Current (A)	380	
Charging Strategy for Li-ion Battery	Self-adaption to BMS	
Number of Battery Input	2	
<b>PV String Input Data</b>		
Max. PV Access Power (W)	36000	
Max. PV Input Power (W)	28800	
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)	36+36+36	
Max. Input Short-Circuit Current (A)	54+54+54	
No. of MPP Trackers/ No. of Strings MPP Tracker	3/2+2+2	
<b>AC Input/Output Data</b>		
Rated AC Input/Output Active Power (W)	18000	
Max. AC Input/Output Apparent Power (VA)	19800	
Rated AC Input/Output Current (A)	81.9/78.3	
Max. AC Input/Output Current (A)	90/86.1	
Max. Continuous AC Passthrough (grid to load) (A)	200	
Peak Power (off-grid) (W)	2 times of rated power, 10s	
Power Factor Adjustment Range	0.8 leading to 0.8 lagging	
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un	
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65	
Grid Connection Form	L+N+PE	
Total Current Harmonic Distortion THDi	<3% (of nominal power)	
DC Injection Current	<0.5% In	
<b>Efficiency</b>		
Max. Efficiency	97.6%	
Euro Efficiency	96.5%	
MPPT Efficiency	>99%	
<b>Equipment 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, Arc Fault Circuit Interrupter (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection	
Surge Protection Level	TYPE II(DC), TYPE II(AC)	
<b>Interface</b>		
Communication Interface	RS485/RS232/CAN	
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)	
<b>General Data</b>		
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating	
Permissible Ambient Humidity	0-100%	
Permissible Altitude	3000m	
Noise (dB)	<55	
Ingress Protection(IP) Rating	IP 65	
Inverter Topology	Non-Isolated	
Over Voltage Category	OVC II(DC), OVC III(AC)	
Cabinet Size (WxHxD mm)	464×863×282	
Weight (kg)	59.8	
Type of Cooling	Intelligent Air Cooling	
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy	
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	