







# Hybrid Inverter

## SUN-3.6/5/6K-SG03LP1-EU



-  Colorful touch LCD, IP65 protection degree
-  DC couple and AC couple to retrofit existing solar system
-  Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
-  Max. charging/discharging current of 190A
-  6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

**Deye**

Stock Code: 605117.SH

# Technical Data

www.deyeinverter.com

Model	SUN-3.6K-SG03LP1-EU	SUN-5K-SG03LP1-EU	SUN-6K-SG03LP1-EU
<b>Battery Input Data</b>			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range (V)	40~60		
Max. Charging Current (A)	9	120	13
Max. Discharging Current (A)	0	120	5
External Temperature Sensor	9	Yes	13
Charging Curve	0	3 Stages / Equalization	5
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
<b>PV String Input Data</b>			
Max. DC Input Power (W)	4680	6500	7800
Rated PV Input Voltage (V)	370 (125~500)		
Start-up Voltage (V)	125		
MPPT Voltage Range (V)	150-425		
Full Load DC Voltage Range (V)	300-425		
PV Input Current (A)	13+13		
Max. PV I S C (A)	17+17		
No. of MPP Trackers	2		
No. of Strings per MPP Tracker	1		
<b>AC Output Data</b>			
Rated AC Output Active Power (W)			
Max AC Output Active Power (W)	3600	5000	6000
AC Output Rated Current (A)	3960	5500	6600
Max AC Output Current (A)	16.4/15.7	22.7/21.7	27.3/26.1
Max. Continuous AC Passthrough (A) Peak Power (off grid)	18/17.2	25/23.9	30/28.7
Power Factor Adjustment Range	2 time of rated power, 10 S		
Power Factor	0.8 leading to 0.8 lagging		
Output Frequency and Voltage	1		
Grid Type	50/60Hz; L/N/PE 220/230Vac (single phase)		
Total Harmonic Distortion (THD)	Single Phase		
DC current injection	<3% (of nominal power)		
<b>Efficiency</b>	<0.5% In		
Max. Efficiency			
Euro Efficiency	97.60%		
MPPT Efficiency	96.50%		
<b>Protection</b>	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			
<b>Certifications and Standards</b>	DC Type II/AC Type III		
Grid Regulation			
Safety EMC / Standard	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150		
<b>General Data</b>	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
Operating Temperature Range (°C)			
Cooling			
Noise (dB)	-40~60°C, >45°C derating		
Communication with BMS	Smart cooling		
Weight (kg)	≤30 dB		
Size (mm)	RS485; CAN		
Protection Degree	20.5		
Installation Style	330W x 580H x 232D		
Warranty	IP65		
	Wall-mounted		
	5 years		

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