

DEYE Inverter Technical Specifications

Model	SUN-3.6K-SG01LP1-EU	SUN-5K-SG01LP1-EU	SUN-8K-SG01LP1-EU
Battery Input Data			
Battery Type	Lead-acid or Li-Ion		
Battery Voltage Range (V)	40~60V		
Max.Charging Current (A)	90A	120A	190A
Max.Discharging Current (A)	90A	120A	190A
Charging Curve	3 Stages/Equalization		
External Temperature Sensor	Optional		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV String Input Data			
Max.DC Input Power (W)	4680W	6500W	10400W
PV Input Voltage (V)	370V(100V~500V)		
MPPT Range (V)	125V-425V		
Start-up Voltage (V)	125V		
PV Input Current (A)	11A+11A	11A+11A	18A+18A
No.of MPPT Trackers	2		
No.of Strings Per MPPT Tracker	1+1	1+1	2+2
AC Output Data			
Rated AC Output and UPS Power (W)	3600W	5000W	8000W
Max AC Output Power (W)	3960W	5500W	8800W
Peak Power(off grid)	7200W,10S	10000W,10S	16000W,10S
AC Output Rated Current(A)	15.7A	21.7A	33.4A/35A
Max.AC Current(A)	18A	25A	38.3A/40A
Max Continuous AC Passthrough(A)	35A	35A	50A
Output Frequency and Voltage	50/60Hz; 220/230/240Vac(single phase)		
Grid Type	Single Phase		
Current Harmonic Distortion	THD<3%(Linear load<1.5%)		
Efficiency			
Max.Efficiency	97.60%		
Euro Efficiency	97.00%		
MPPT Efficiency	99.90%		
Protection			
PV Arc Fault Detection	Integrated (Except European Type)		
PV Input Lightning Protection	Integrated		
Anti-islanding Protection	Integrated		
PV String Input Reverse Polarity Protection	Integrated		
Insulation Resistor Detection	Integrated		
Residual Current Monitoring Unit	Integrated		
Output Over Current Protection	Integrated		
Output Shorted Protection	Integrated		
Output Over Voltage Protection	Integrated		
Certifications and Standards			
Grid Regulation	UL1741,IEEE1547,RULE21,VDE 0126,AS4777,NRS2017,G98,G99		
Safety Regulation	IEC62109-1, IEC62109-2		
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B		
General Data			
Operating Temperature Range (°C)	-25~60 °C , >45 °C Derating		
Cooling	Fan		
Noise (dB)	<30		
Communication with BMS	RS485; CAN		
Weight (kg)	20.5KG	20.5KG	32KG
Size (Length*Width*Height mm)	580×330×217mm	580×330×217mm	680×420×233mm
Protection Degree	IP65		
Communication	WIFI		
Warranty	5/10 years		