



Remotely Shutdown Function

Smart Monitoring Platform

Thanks to the smart monitoring platform, Deye full series inverter products support remotely shut down immediately when the accident occurs. Setting parameters and FW update remotely, which makes PV plant O&M easier.

- 100% unbalanced output, each phase; Max. output up to 50% rated power
- DC couple and AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- Max. charging/discharging current of 100A
- High voltage battery, higher efficiency
- 6 time periods for battery charging/discharging
- Support storing energy from diesel generator



Technical Specifications

Model	SUN-25K-SG01HP3-EU-BM2	SUN-30K-SG01HP3-EU-BM3	SUN-40K-SG01HP3-EU-BM4	SUN-50K-SG01HP3-EU-BM4
Battery Input Data				
Battery Type	Lithium-ion			
Battery Voltage Range (V)	150~800V			
Max. Charging Current (A)	50A+50A			
Max. Discharging Current (A)	50A+50A			
Number of battery input	2			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			

PV String Input Data				
Max. DC Input Power (W)	32500W	39000W	52000W	65000W
Max. DC Input Voltage (V)	1000V			
Start-up Voltage (V)	150V			
MPPT Range (V)	200V-850V			
Full Load DC Voltage Range (V)	450-850	360-850	360-850	450-850
Rated DC Input Voltage (V)	600			
PV Input Current (A)	36A+36A	36A+36A+36A	36A+36A+36A+36A	
Max. PV ISC (A)	55A+55A	55A+55A+55A	55A+55A+55A+55A	
No. of MPP Trackers	2	3	4	
No. of Strings per MPP Tracker	2			

AC Output Data				
Rated AC Output and UPS Power (W)	25000W	3000W	40000W	50000W
Max. AC Output Power (W)	27500W	33000W	44000W	55000W
Peak Power (off grid)	1.5 times of rated power, 10 S			
AC Output Rated Current (A)	38	45.6	60.8	75.8
Max. AC Current (A)	50	60	70	83.3
Max. Continuous AC Passthrough (A)	150A			
Output Frequency and Voltage	50/60Hz;3L/N/PE 220/380Vac, 230/400Vac			
Grid Type	Three Phase			
DC injection current (mA)	<0.5% 1n			



Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%

Protection	
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
Surge protection	DC Type II / AC Type II

Certifications and Standards	
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

General Data	
Operating Temperature Range (°C)	-40~60°C, >45°C Derating
Cooling	Smart cooling
Noise (dB)	<45 dB
Communication with BMS	RS485; CAN
Weight (kg)	60
Size (mm)	560.5Wx837Hx319D
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years

