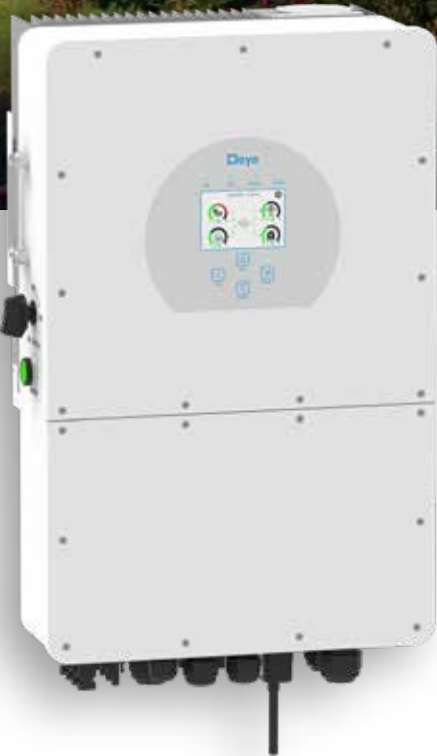


Three Phase Hybrid Inverter

SUN-5/6/8/10/12/15/20/25K-SG01HP3-AU-AM2



- 100** 100% unbalanced output, each phase
-  AC couple to retrofit existing solar system
- 16** Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 50** Max. charging/discharging current of 50A
- H** High voltage battery, higher efficiency
- 6** 6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

Deye

Stock Code: 605117.SH

Model	SUN-5K-SG01 HP3-AU-AM2	SUN-6K-SG01 HP3-AU-AM2	SUN-8K-SG01 HP3-AU-AM2	SUN-10K-SG01 HP3-AU-AM2	SUN-12K-SG01 HP3-AU-AM2	SUN-15K-SG01 HP3-AU-AM2	SUN-20K-SG01 HP3-AU-AM2	SUN-25K-SG01 HP3-AU-AM2
Battery Input Data								
Battery Type	Lithium-ion							
Battery Voltage Range (V)	160-700							
Max. Charging Current (A)	30	37						50
Max. Discharging Current (A)	30	37						50
Number of battery input	1							
Charging Strategy for Li-Ion Battery	Self-adaption to BMS							
PV String Input Data								
Max. PV Input Power (W)	7500	9000	12000	15000	18000	22500	30000	37500
Max. PV Input Voltage (V)	1000							
Start-up Voltage (V)	180							
MPPT Range (V)	150-850							
Full Load PV Voltage Range (V)	195-850	195-850	260-850	325-850	340-850	420-850	500-850	625-850
Rated PV Input Voltage (V)	600							700
PV Input Current (A)	20+20				26+20		26+26	
Max. PV I _{SC} (A)	30+30				39+30		39+39	
No.of MPP Trackers	2							
No.of Strings per MPP Tracker	1				2+1		2	
AC Output Data								
Rated AC Output and UPS Power (W)	5000	6000	8000	10000	12000	15000	20000	25000
Rated Apparent Output Power (kVA)	5000	6000	8000	10000	12000	15000	20000	25000
Max. AC Output Power (W)	5000	6000	8000	10000	12000	15000	20000	25000
AC Output Rated Current (A)	7.3	8.7	11.6	14.5	17.4	21.8	29	36.3
Max. AC Output Current (A)	7.3	8.7	11.6	14.5	17.4	21.8	29	36.3
Max. Three-phase Unbalanced Output Current	13	13	18	22	25	30	35	41.7
Max. Continuous AC Passthrough (A)	40				80			
Peak Power (off grid)	1.5 time of rated power, 10 S							
Generator input/Smart load /AC couple current (A)	7.3/40/7.3	8.7/40/8.7	11.6/40/11.6	14.5/40/14.5	17.4/80/17.4	21.8/80/21.8	29/80/29	36.3/80/36.3
Power Factor	0.8 leading to 0.8 lagging							
Output Frequency and Voltage	50/60Hz; 3L/N/PE 230/400, 240/415Vac							
Grid Connection Form	3L+N+PE							
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)							
DC current injection	<0.5% I _N							
Efficiency								
Max. Efficiency	97.60%							
Euro Efficiency	97.00%							
MPPT Efficiency	99.90%							
Protection								
Integrated	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, Arc Fault Circuit Interruption (AFCI optional)							
Protection Level	Class I							
Over Voltage Category	DC Type II/AC Type III							
Certifications and Standards								
Grid Regulation	AS/NZS 4777.2							
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2							
General Data								
Operating Temperature Range ()	-40 to +60°C, >45°C derating							
Cooling	Free Cooling		Smart cooling					
Noise (dB)	≤55 dB							
Communication with BMS	RS485; CAN							
Weight (kg)	30.5							
Size (mm)	408W×638H×237D (Excluding connectors and brackets)							
Protection Degree	IP65							
Installation Style	Wall-mounted							
Inverter topology	Non-isolated							
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy							