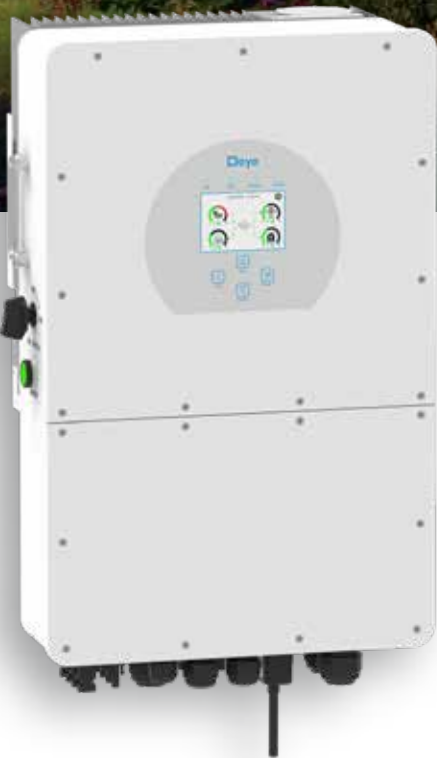


# Three Phase Hybrid Inverter

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



- 100** 100% unbalanced output, each phase
- AC** 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
- Generator** 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
<b>Battery Input Data</b>								
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							
<b>PV String Input Data</b>								
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 <sub>sc</sub> (A)	30+30			39+30			39+39	
No.of MPP Trackers	2							
No.of Strings per MPP Tracker	1			2+1			2	
<b>AC Output Data</b>								
Rated AC Output and UPS Power (W)	5000	6000	8000	10000	12000	15000	20000	25000
Rated Apparent Output Power (VA)	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	230/400V 240/415V 0.85Un-1.1Un							
Grid Connection Form	3L+N+PE							
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)							
DC current injection	<0.5% I <sub>n</sub>							
<b>Efficiency</b>								
Max. Efficiency	97.60%							
Euro Efficiency	97.00%							
MPPT Efficiency	99.90%							
<b>Protection</b>								
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							
<b>Certifications and Standards</b>								
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							
<b>General Data</b>								
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	10 Years							