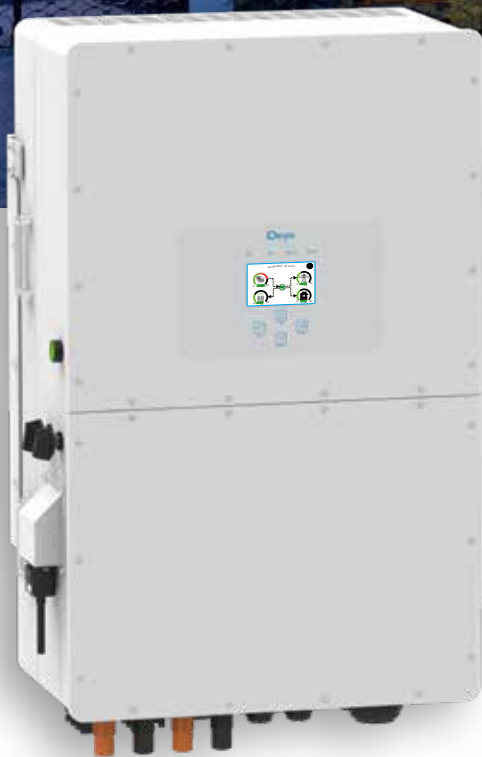


Three Phase Hybrid Inverter

SUN-29.9/30/35K-SG01HP3-AU-BM3

SUN-40/50K-SG01HP3-AU-BM4



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

Deye

Stock Code: 605117.SH

Model	SUN-29.9K-SG01HP3 -AU-BM3		SUN-35K-SG01HP3 -AU-BM3		SUN-40K-SG01HP3 -AU-BM4		SUN-50K-SG01HP3 -AU-BM4	
Battery Input Data								
Battery Type	Lithium-ion							
Battery Voltage Range (V)	160-800							
Max. Charging Current (A)	50+50							
Max. Discharging Current (A)	50+50							
Number of Battery Input	2							
Charging Strategy for Li-Ion Battery	Self-adaption to BMS							
PV String Input Data								
Max. PV Input Power (W)	44850		52500		60000		75000	
Max. PV Input Voltage (V)	1000							
Start-up Voltage (V)	180							
Min Input PV Operating Voltage Range (V)	180-1000							
MPPT Range (V)	150-850							
Full Load PV Voltage Range (V)	360-850		420-850		360-850		450-850	
Rated PV Input Voltage (V)	600							
PV Input Current (A)	36+36+36		36+36+36		36+36+36+36			
Max. PV I _{SC} (A)	55+55+55		55+55+55		55+55+55+55			
No.of MPP Trackers	3				4			
No.of Strings per MPP Tracker	2+2+2				2+2+2+2			
AC Output Data								
Rated AC Output and UPS Power (W)	29900		35000		40000		50000	
Rated Apparent Output Power (kVA)	29900		35000		40000		50000	
Max. AC Output Power (W)	29900		35000		40000		50000	
AC Output Rated Current (A)	43.4		50.8		58		72.5	
Max. AC Output Current (A)	43.4		50.8		58		72.5	
Max. Three-phase Unbalanced Output Current (A)	60		60		70		83.3	
Max. Continuous AC Passthrough (A)	200							
Peak Power (Off Grid)	1.5 time of rated power, 10 S							
Generator Input/Smart Load /AC Couple Current (A)	43.4 / 200 / 43.4		50.8 / 200 / 50.8		58 / 200 / 58		72.5 / 200 / 72.5	
Power Factor Adjustment Range	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% In							
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 (°C)	-40 to +60°C, >45°C derating							
Cooling	Smart cooling							
Noise (dB)	≤65 dB							
Communication with BMS	CAN							
Weight (kg)	80							
Size (mm)	527W×894H×294D (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								