



# Split Phase Hybrid Inverter

SUN-8/10/12/15K-SG01HP2-US-AM2



- 100** 100% unbalanced output
-  AC couple to retrofit existing solar system
- 10** Max. 10 pcs 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-8K-SG01HP2 -US-AM2	SUN-10K-SG01HP2 -US-AM2	SUN-12K-SG01HP2 -US-AM2	SUN-15K-SG01HP2 -US-AM2
<b>Battery Input Data</b>				
Battery Type	Lithium-ion			
Battery Voltage Range (V)	160-500			
Max. Charging Current (A)	50			
Max. Discharging Current (A)	50			
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
<b>PV String Input Data</b>				
Max. PV Access Power (W)	16000	20000	24000	30000
Max. PV Input Power (W)	12000	15000	18000	22500
Max. PV Input Voltage (V)	550			
Start-up Voltage (V)	180			
MPPT Voltage Range (V)	150-500			
Rated PV Input Voltage (V)	380			
Max. Operating PV Input Current (A)	26+26			
Max. Input Short-Circuit Current (A)	39+39			
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2			
<b>AC Input/Output Data</b>				
Rated AC Input/Output Active Power (W)	8000	10000	12000	15000
Max. AC Input/Output Apparent Power (VA)	8000	10000	12000	15000
Rated AC Input/Output Current (A)	33.4	41.7	50	62.5
Max. AC Input/Output Current (A)	33.4	41.7	50	62.5
Max. Continuous AC Passthrough (grid to load) (A)	150			
Peak Power (off-grid) (W)	1.5 times of rated power, 10s			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated Input/Output Voltage/Range (V)	120/240 0.85Un-1.1Un			
Rated Input/Output Grid Frequency/Range(Hz)	60/55-65			
Grid Connection Form	2L+N+PE			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
<b>Efficiency</b>				
Max. Efficiency	97.6%			
Euro Efficiency	97.0%			
MPPT Efficiency	>99%			
<b>Equipment Protection</b>				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
<b>Interface</b>				
Communication Interface	RS485/RS232/CAN			
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)			
<b>General Data</b>				
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	2000m			
Noise (dB)	≤55			
Ingress Protection(IP) Rating	TYPE3R			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC),OVC IV(AC)			
Cabinet Size (WxHxD mm)	408×678×247 (Excluding Connectors and Brackets)			
Weight (kg)	30			
Type of Cooling	Intelligent Air Cooling			
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	IEEE 1547.1, SRD V2.0			
Safety / EMC Standard	FCC, UL 1741			