Three Phase Hybrid Inverter

SUN-29.9/30/35K-SG01HP3-EU-BM3 SUN-40/50K-SG01HP3-EU-BM4



Technical Data _____ www.deyeinverter.com

Model	SUN-29.9K-SG01HP3 -EU-BM3	SUN-30K-SG01HP3 -EU-BM3	SUN-35K-SG01HP3 -EU-BM3	SUN-40K-SG01HP3 -EU-BM4	SUN-50K-SG01HP -EU-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					
Charging Strategy for Li-ion Battery	Self-adaption to BMS					
Number of Battery Input	2					
PV String Input Data						
Max. PV Input Power (W)	38870	39000	45500	52000	65000	
Max. PV Input Voltage (V)			1000			
Start-up Voltage (V)	180					
MPPT Voltage Range (V)	150-850					
Rated PV Input Voltage (V)	600					
Max. Operating PV Input Current (A)		36+36+36 36+36+36				
Max. Input Short-Circuit Current (A)	55+55+55			55+55+55		
No. of MPP Trackers/						
No. of Strings per MPP Tracker AC Input/Output Data	3/2+2+2			4/2+2+2		
Rated AC Input/Output Active Power (W)	29900	20000	35000	40000	50000	
<u> </u>		30000				
Max. AC Input/Output Apparent Power (VA Rated AC Input/Output Current (A)		33000	38500 53.1/50.8	44000 60.7/58	55000 75.8/72.5	
	45.4/43.4	45.5/43.5				
Max. AC Input/Output Current (A)	45.4/43.4	50/47.9	58.4/55.8	66.7/63.8	83.4/79.8	
Max. Continuous AC Passthrough (grid to load) (A	200					
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)	220/380V, 230/400V 0.85Un-1.1Un					
Rated Input/Output Grid Frequency/Range(H	50/45-55, 60/55-65					
Grid Connection Form	3L+N+PE					
Total Current Harmonic Distortion THDi	<3% (of nominal power)					
DC Injection Current			<0.5% In			
Efficiency						
Max. Efficiency	97.60%					
Euro Efficiency	97.0%					
MPPT Efficiency			>99%			
Equipment Protection Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Overvoltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level					
Surge Protection Level	TYPE II(DC), TYPE II(AC)					
Interface Communication Interface	DC 40E /DC 202 /C AN					
Communication Interface	RS485/RS232/CAN GPRS/WIFI/Bluetooth/4G/LAN(optional)					
Monitor Mode		GPRS/WI	-i/Bluetooth/4G/LAN	(optional)		
General Data			- 1/0°C - 45°C D	L!		
Operating Temperature Range ()	-40 to +60°C, >45°C Derating					
Permissible Ambient Humidity	0-100%					
Permissible Altitude	2000m					
Noise (dB)	<65					
Ingress Protection(IP) Rating	IP 65					
Inverter Topology	Non-Isolated					
Over Voltage Category	OVC II(DC), OVC III(AC)					
Cabinet Size (WxHxD mm)	527×894×294 (Excluding Connectors and Brackets)					
Weight (kg)	80					
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	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105					
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