Three Phase Hybrid Inverter

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



Technical Data _____

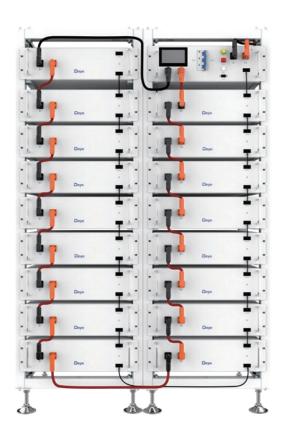
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Model	SUN-29.9K-SG01HP3 -EU-BM3	SUN-30K-SG01HP3 -EU-BM3	SUN-35K-SG01HP3 -EU-BM3	SUN-40K-SG01HP3 -EU-BM4	SUN-50K-SG01HP -EU-BM4			
Battery Input Data								
Battery Type	Lithium-ion							
Battery Voltage Range (V)			160-800					
Max. Charging Current (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 Access Power (W)	59800	60000	70000	80000	100000			
Max. PV Input Power (W)	47840	48000	56000	64000	80000			
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 MPP Tracker	3/2+2+2 4/2+2+2							
AC Input/Output Data								
Rated AC Input/Output Active Power (W)	29900	30000	35000	40000	50000			
Max. AC Input/Output Apparent Power (VA)	29900	33000	38500	44000	55000			
Rated AC Input/Output Current (A)	45.4/43.4	45.5/43.5	53.1/50.8	60.7/58	75.8/72.5			
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(Hz)	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	97.00%							
MPPT Efficiency	>99%							
Equipment Protection			77770					
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level							
Surge Protection Level	TYPE II(DC), TYPE II(AC)							
Interface			D0.405 (2.555)					
Communication Interface	RS485/RS232/CAN							
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)							
General Data								
Operating Temperature Range ()		-4(0 to +60°C, >45°C Dera	ting				
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							
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2							



BOS-G PRO





• Convenient

Quick installation, standard of 19-inch embedded designed module is comfortable for installationand maintenance.

Safe And Reliable

Cathode material is made from LiFePO4 with safety performance and long cycle life, The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.

• Intelligent BMS

It has protection functions including over-discharge, over-charge, overcurrent and over-high or low temperature. The systemcan automatically manage charge and discharge state and balance current and voltage of each cell.

• Eco-friend

The whole module is non-toxic, non-polluting and environmentally friendly.

• Flexible Configuration

Multiple battery modules can be in parallel for expanding capacity and power.Support USB upgrade,wifi upgrade (optional), remote upgrade (Compatible with Deye inverter).

• Wide Temperature

Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.

Technical Data

Model		B0S-G PRO						
Main Parameter								
Cell Chemistry		LiFePO4						
Module Energy (kV	Vh)	5.12						
Module Nominal V	oltage (V)	51.2						
Module Capacity (Ah)	100						
Battery Module Number		BOS-G25 PRO	BOS-G40 PRO	BOS-G60 PRO	BOS-G85 PRO			
Battery Module Qty in series. (Optional)		5 (Min)	8	12	17 (Max)			
System Nominal Voltage (V)		256	409.6	614.4	870.4			
System Operating voltage (V)		220~292	352~467.2	528~700.8	748~992.8			
System Energy (kWh)		25.6	40.96	61.44	87.04			
System Usable Ene	ergy (kWh) ^[1]	23.04	36.86	55.3	78.33			
Rated DC Power (k	(Wh)	25.6	40.96	55.3	87.04			
Charge/Discharge Current (A) ^[2]	Recommend	50						
	Max	100						
	Peak Discharge	125 (2mins, 25°C)						
Working Temperature (°C)		Charge: 0°C~55°C / Discharge: -20°C~55°C						
Status Indicator		Yellow: Battery High Voltage Power On Red: Battery System Alarm						
Communication Port		CAN2.0 / RS485						
Humidity		5~85%RH						
Altitude		≤3500m						
IP Rating of Enclos	sure		IP2	IP20				
Dimension (W/D/H, mm)		530*60	02*1629	530*602*2219	1060*602*1629			
Weight Approxima	ite (kg)	285	420	610	866			
Installation Location		Rack Mounting						
Storage Temperature (°C)			0°C~35°C					
Recommend Depth of Discharge		90%						
Cycle Life		25°C±2°C, 0.5C/0.5C, EOL70%≥6000						
Warranty ^[3]		10 years						
Certification		CE, IEC62619, VDE2510-50, UN38.3						

- [1] DC Usable Energy, test conditions: 90% DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
- [2] The current is affected by temperature and SOC.
- [3] The warranty is due whichever reached first of warranty period or life cycle power.
- [4] Made in China.

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