

Three Phase String Inverter

SUN-18/20K-G06P3-EU-BM2-P1



2 MPP trackers, Max. efficiency up to 98.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Technical Data

Model	SUN-18K-G06P3-EU-BM2-P1		SUN-20K-G06P3-EU-BM2-P1	
PV String Input Data				
Max. PV Input Power (kW)	27		30	
Max. PV Input Voltage (V)			1100	
Start-up Voltage (V)			140	
MPPT Voltage Range (V)			120-1000	
Rated PV Input Voltage (V)			600	
Max. Operating PV Input Current (A)			32+32	
Max. Input Short Circuit Current (A)			48+48	
No. of MPP Trackers/ No. of Strings MPP Tracker			2/2+2	
AC Output Side				
Rated AC Output Active Power (kW)	18		20	
Max. AC Output Apparent Power (kVA)	19.8		22	
Rated AC Output Current (A)	27.3/26.1		30.4/29	
Max. AC Output Current (A)	30/28.7		33.4/31.9	
Rated Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un			
Grid Connection Form	3L/N/PE			
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Total Current Harmonic Distortion THDi	<3%			
DC Injection Current	<0.5%In			
Efficiency				
Max. Efficiency			98.5%	
Euro Efficiency			98.0%	
MPPT Efficiency			>99%	
Equipment Protection				
DC Reverse Polarity Protection			Yes	
AC Output Overcurrent Protection			Yes	
AC Output Overvoltage Protection			Yes	
AC Output Short Circuit Protection			Yes	
Thermal Protection			Yes	
Insulation Impedance Detection			Yes	
DC Component Monitoring			Yes	
Arc Fault Circuit Interrupter (AFCI)			Optional	
Anti-islanding Protection			Yes	
Residual Current Detection			Yes	
Surge Protection Level			TYPE II(DC), TYPE II(AC)	
DC Switch			Yes	
Interface				
LCD/LED Display			LCD 1602	
Monitor Mode			RS485/RS232/WiFi/LAN	
General Data				
Operating Temperature Range (°C)			-25 to -60°C	
Permissible Ambient Humidity			0-100%	
Permissible Altitude (m)			4000m	
Noise (dB)			<45	
Ingress Protection(IP) Rating			IP 65	
Inverter Topology			Non-Isolated	
Over Voltage Category			OVC II(DC), OVC III(AC)	
Cabinet Size (WxHxD mm)			283×525×188(Excluding Connectors and Brackets)	
Weight (kg)			12	
Warranty			Standard 5 years, extended warranty	
Type of Cooling			natural cooling	
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 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4	