Three Phase String Inverter(LV)

SUN-6/8K-G06P3-EU-BM2-LV-P1



Reliable

- Anti-PID function (Optional)

Intelligent

- String intelligent monitoring (optional)

Efficient

- 2 MPP trackers, Max. efficiency up to 98.5%
- 127V/220V, 133V/230V and 50/60Hz, Three phase system

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Technical Data

Model	SUN-6K-G06P3-EU-BM2-LV-P1	SUN-6K-G06P3-EU-BM2-LV-P1
PV String Input Data		
Max. PV Input Power (kW)	9	12
Max. PV Input Voltage (V)	800	
Start-up Voltage (V)	250	
MPPT Voltage Range (V)	200-700	
Rated PV Input Voltage (V)	500	
Max. Operating PV Input Current (A)	20+20	20+26
Max. Input Short Circuit Current (A)	30+30	30+39
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1	2/1+2
AC Output Side		
Rated AC Output Active Power (kW)	6	35
Max. AC Output Apparent Power (kVA)	6	38.5
Rated AC Output Current (A)	15.8/15.1	21/20.1
Max. AC Output Current (A)	15.8/15.1	21/20.1
Rated output voltage	127V/220V, 133V/230V 0.85Un-1.1Un 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	98.3%	
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	
DC Switch	Yes	
Surge Protection Level	TYPE II(DC), TYPE II(AC)	
Interface		
LCD/LED Display	LCD1602	
Communication Interface	RS485/RS232 /WiFi/LAN	
General Data		
Operating Temperature Range (°C)	-25 to +60℃, >45℃ Derating	
Permissible Ambient Humidity	0-100%	
Permissible Altitude	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)	283×525×178 (Excluding Connectors and Brackets)	283×525×188 (Excluding Connectors and Brackets)
Weight (kg)	28.7	12
Warranty	5 Years	
Type of Cooling	Natural Cooling	
Grid Regulation	NBR 16149, NBR 16150, EN 50549, RD 140	
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	