

Three Phase String Inverter

SUN-3/4/5/6/7/8/9/10/12/15K-G06P3-EU-BM2-P1



Efficient

- 2 MPP trackers, Max. efficiency up to 98.5%



Intelligent

- String intelligent monitoring (optional)



Adaptive

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



Reliable

- Anti-PID function (Optional)

Model	SUN-3K-G06 P3-EU-BM2 -P1	SUN-4K-G06 P3-EU-BM2 -P1	SUN-5K-G06 P3-EU-BM2 -P1	SUN-6K-G06 P3-EU-BM2 -P1	SUN-7K-G06 P3-EU-BM2 -P1	SUN-8K-G06 P3-EU-BM2 -P1	SUN-9K-G06 P3-EU-BM2 -P1	SUN-10K-G06 P3-EU-BM2 -P1	SUN-12K-G06 P3-EU-BM2 -P1	SUN-15K-G06 P3-EU-BM2 -P1
PV String Input Data										
Max. PV Input Power (kW)	4.5	6	7.5	9	10.5	12	13.5	15	18	22.5
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)	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)	3	4	5	6	7	8	9	10	12	15
Max. AC Output Apparent Power (kVA)	3.3	4.4	5.5	6.6	7.7	8.8	9.9	11	13.2	16.5
Rated AC Output Current (A)	4.6/4.4	6.1/5.8	7.6/7.3	9.1/8.7	10.7/10.2	12.2/11.6	13.7/13.1	15.2/14.5	18.2/17.4	22.8/21.8
Max. AC Output Current (A)	5/4.8	6.7/6.4	8.4/8	10/9.6	11.7/11.2	13.4/12.8	15/14.4	16.7/16	20/19.2	25/24
Rated output voltage	220/380V, 230/400V 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	98.1%		98.2%		98.3%				98.5%	
Euro Efficiency	97.5%		97.6%		97.8%				98%	
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 +65°C, >45°C Derating									
Permissible Ambient Humidity	0-100%									
Permissible Altitude	3000m									
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) (Excluding Connectors and Brackets)	283×525×178									283×525×188
Weight (kg)	11.5									12
Warranty	5 Years									
Type of Cooling	Natural Cooling									
Grid Regulation	IEC 61727,IEC 62116,EN 50549									
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2									