

Three Phase String Inverter

SUN-18/20/22/23/25K-G06P3-EU-AM2



Efficient

- 2 MPP trackers, Max. efficiency up to 98.2%



Intelligent

- String intelligent monitoring (optional)



Adaptive

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



Reliable

- Anti-PID function (Optional)

Model	SUN-18K-G06P3 -EU-AM2	SUN-20K-G06P3 -EU-AM2	SUN-22K-G06P3 -EU-AM2	SUN-23K-G06P3 -EU-AM2	SUN-25K-G06P3 -EU-AM2
PV String Input Data					
Max. PV Input Power (kW)	27	30	33	34.5	37.5
Max. PV Input Voltage (V)	1100				
Start-up Voltage (V)	150				
MPPT Voltage Range (V)	200-1000				
Rated PV Input Voltage (V)	600				
Max. Operating PV Input Current (A)	32+32		36+32		
Max. Input Short Circuit Current (A)	48+48		54+48		
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2				
AC Output Side					
Rated AC Output Active Power (kW)	18	20	22	23	25
Max. AC Output Apparent Power (kVA)	19.8	22	24.2	25.3	27.5
Rated AC Output Current (A)	27.3/26.1	30.4/29	33.4/31.9	34.9/33.4	37.9/36.3
Max. AC Output Current (A)	30/28.7	33.4/31.9	36.7/35.1	38.4/36.7	41.7/39.9
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	98.2%				
Euro Efficiency	97.7%				
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°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	4000m				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	283×525×224 (Excluding Connectors and Brackets)				
Weight (kg)	12.7		16		
Warranty	5 Years				
Type of Cooling	Intelligent Air 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 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				