

Three Phase String Inverter

SUN-3/4/5/6/7/8/9/10/12/15K-G06P3-EU-AM2



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)

Model	SUN-3K-G06 P3-EU-AM2	SUN-4K-G06 P3-EU-AM2	SUN-5K-G06 P3-EU-AM2	SUN-6K-G06 P3-EU-AM2	SUN-7K-G06 P3-EU-AM2	SUN-8K-G06 P3-EU-AM2	SUN-9K-G06 P3-EU-AM2	SUN-10K-G06 P3-EU-AM2	SUN-12K-G06 P3-EU-AM2	SUN-15K-G06 P3-EU-AM2
PV String Input Data										
Max. PV Input Power (kW)	3.9	5.2	6.5	7.8	9.1	10.4	11.7	13	15.6	19.5
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)						13+13				13+26
Max. Input Short Circuit Current (A)						19.5+19.5				19.5+39
No. of MPP Trackers/ No. of Strings per 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/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	98.1%		98.2%				98.3%			98.5%
Euro Efficiency	97.5%		97.6%				97.8%			98%
MPPT Efficiency						>99%				
Equipment Protection										
DC Polarity Reverse Connection Protection						Yes				
AC Output Overcurrent Protection						Yes				
AC Output Overvoltage Protection						Yes				
AC Output Short Circuit Protection						Yes				
Thermal Protection						Yes				
DC Terminal Insulation Impedance Monitoring						Yes				
DC Component Monitoring						Yes				
Ground Fault Current Monitoring						Yes				
Power Network Monitoring						Yes				
Island Protection Monitoring						Yes				
Earth Fault Detection						Yes				
Overvoltage Load Drop Protection						Yes				
Residual Current (RCD) Detection						Yes				
Surge Protection Level						TYPE II(DC), TYPE II(AC)				
Interface										
Communication Interface						RS485/RS232				
Monitor Mode						GPRS/WIFI/Bluetooth/4G/LAN(optional)				
General Data										
Operating Temperature Range (°C)						-25 to +60°C, >45°C Derating				
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)						283×463×178 (Excluding Connectors and Brackets)				
Weight (kg)						11				
Warranty						5 Years				
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 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				