

Three Phase String Inverter

SUN-60/70/75/80K-G03



-  4 MPP trackers, Max. efficiency up to 98.7%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)
-  Type II DC/AC SPD

Technical Data

Model	SUN-60K-G03		SUN-70K-G03		SUN-75K-G03		SUN-80K-G03	
PV String Input Data								
Max. PV Input Power (kW)	90		105		112.5		120	
Max. PV Input Voltage (V)	1100							
Start-up Voltage (V)	200							
MPPT Voltage Range (V)	200-850							
Rated PV Input Voltage (V)	600							
Max. Operating PV Input Current (A)	(40+40+40+40)							
Max. Input Short Circuit Current (A)	60+60+60+60							
No. of MPPT Trackers/ No. of Strings per MPPT	4/3+3+3+3		4/4+4+4+4					
AC Output Data								
Rated AC Output Active Power(kW)	60		70		75		80	
Max. AC Output Apparent Power(kVA)	66		77		82.5		88	
Rated AC Output current (A)	90.9/87		106.1/101.5		113.6/108.7		121.2/115.9	
Max. AC Output Current(A)	100/95.7		116.7/111.6		125/119.6		133.3/127.5	
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	98.6%		98.7%					
Euro Efficiency	98.0%		98.1%					
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 III(AC)							
Interface								
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 (m)	2000m							
Noise (dB)	≤ 50 dB(A)		≤ 55 dB(A)					
Ingress Protection(IP) Rating	IP 65							
Inverter Topology	Non-Isolated							
Over Voltage Category	OVC II(DC), OVC III(AC)							
Cabinet Size (mm)	700W×575H×297D (Excluding Connectors and Brackets)							
Weight (kg)	60							
Warranty	12 Years							
Type of Cooling	Natural Cooling							
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G98, G99, VDE-AR-N 4105							
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2							

Note Possible to connect max 20A per string so to use only 2 strings per MPPT to arrive at max 40A per MPPT