

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



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	
Input Side								
Max. DC Input Power (kW)	78		91		97.5		104	
Max. DC Input Voltage (V)	1100							
Start-up DC Input Voltage (V)	250							
MPPT Operating Range (V)	200-1000							
Max. DC Input Current (A)	40+40+40+40							
Max. Short Circuit Current (A)	60+60+60+60							
No.of MPP Trackers	4							
No.of Strings per MPP Tracker	3+3+3+3		4+4+4+4					
Output Side								
Rated Output Power (kW)	60		70		75		80	
Max. Active Power (kW)	66		77		82.5		88	
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)							
Rated Grid Frequency (Hz)	50 / 60 (Optional)							
Operating Phase	Three Phase							
Rated AC Grid 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	
Power Factor Adjustment Range	0.8 leading to 0.8 lagging							
Total Harmonics Current Distortion (THDi)	<3%							
DC Injection Current (mA)	<0.5%							
Grid Frequency Range	45-55 or 55-65 (Optional)							
Efficiency								
Max. Efficiency	98.7%							
Euro Efficiency	98.3%							
MPPT Efficiency	>99%							
Protection								
DC Reverse-Polarity Protection	Yes							
AC Short Circuit Protection	Yes							
AC Output Overcurrent Protection	Yes							
Output Overvoltage Protection	Yes							
Insulation Resistance Protection	Yes							
Ground Fault Monitoring	Yes							
Anti-islanding Protection	Yes							
Temperature Protection	Yes							
Integrated DC Switch	Yes							
Remote Software upload	Yes							
Remote Change of Operating Parameters	Yes							
Surge Protection	DC Type II / AC Type II							
General Data								
Cabinet Size (WxHxD mm)	700×575×297 (Excluding Connectors and Brackets)							
Weight (kg)	60							
Topology	Transformerless							
Internal Consumption	<1W (Night)							
Running Temperature	-25 to +65°C, >45°C Derating							
Ingress Protection	IP65							
Noise Emission (Typical)	≤50 dB		≤55 dB					
Cooling Concept	Smart Cooling							
Permissible Altitude (m)	2000							
Warranty	8 Years							
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21,CEI 0-16,EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105, VDE-AR-N 4110							
Operating Surroundings Humidity	0-100%							
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2							
Features								
Display	LCD 240 × 160							
Interface	RS485/RS232/Wifi/LAN							

Three Phase String Inverter

SUN- 70 / 80 / 90 / 100 / 110 K-G03



Max. 6 MPP trackers, Max. efficiency up to 98.8%



Zero export application, VSG application



String intelligent monitoring



Wide output voltage range



Anti-PID function



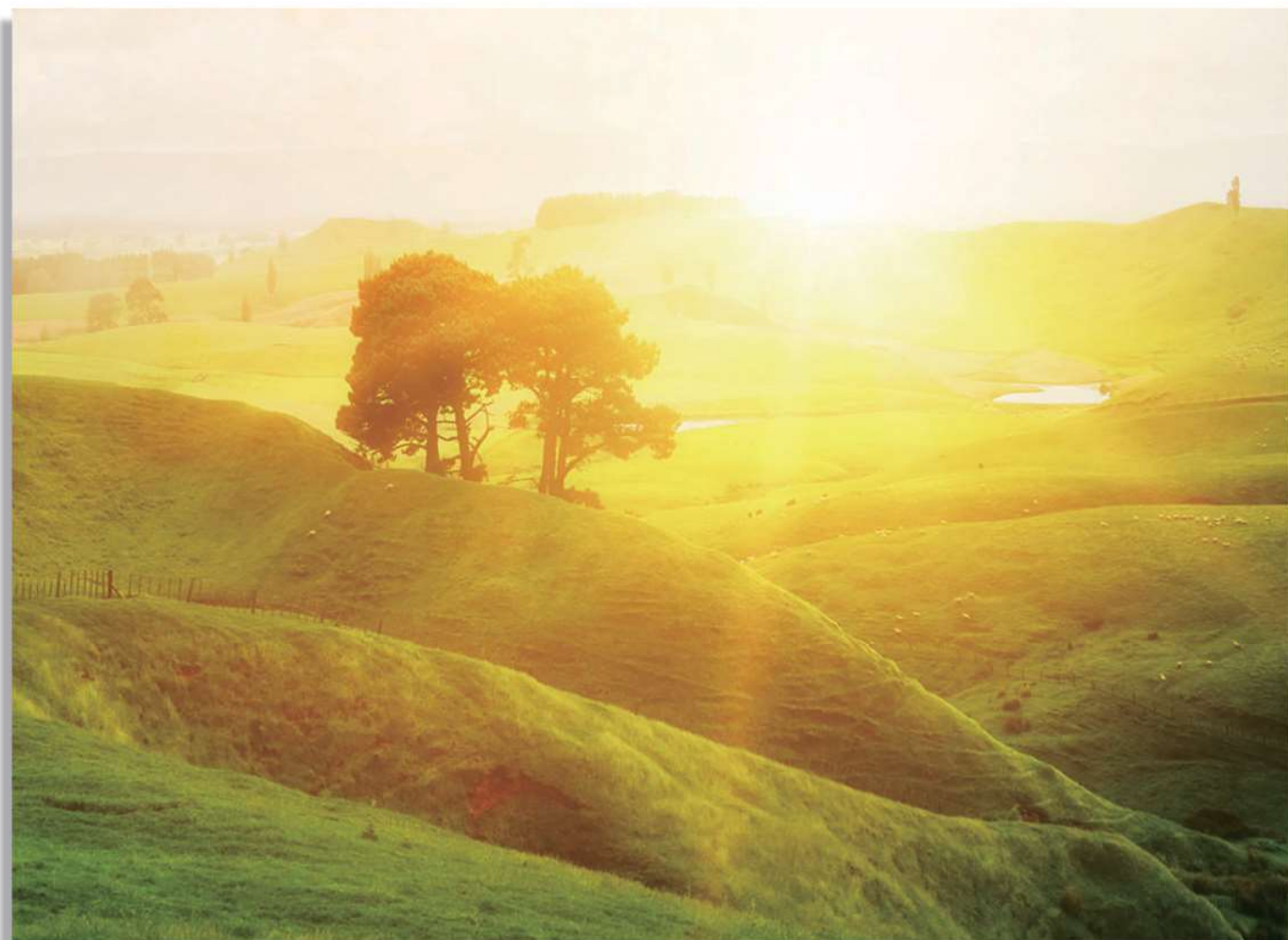
Type II DC/AC SPD

Technical Data

Model	SUN-70K-G03		SUN-80K-G03		SUN-90K-G03		SUN-100K-G03		SUN-110K-G03	
Input Side										
Max. DC Input Power (kW)	91		104		135		150		150	
Max. DC Input Voltage (V)	1100									
Start-up DC Input Voltage (V)	250									
MPPT Operating Range (V)	200-1000									
Max. DC Input Current (A)	40+40+40+40				40+40+40+40+40+40					
Max. Short Circuit Current (A)	60+60+60+60				60+60+60+60+60+60					
Number of MPPT	4				6					
Strings per MPPT	4+4+4+4				4+4+4+4+4+4					
Output Side										
Rated Output Power (kW)	70		80		90		100		110	
Max. Active Power (kW)	77		88		99		110		121	
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)									
Rated Grid Frequency (Hz)	50 / 60 (Optional)									
Operating Phase	Three phase									
Rated AC Grid Output Current (A)	106.1/101.5		121.2/115.9		136.4/130.4		151.5/144.9		166.7/159.4	
Max. AC Output Current (A)	116.7/111.6		133.3/127.5		150/143.5		166.7/159.4		183.3/175.4	
Output Power Factor	0.8 leading to 0.8 lagging									
Total Harmonics Current Distortion (THDi)	<3%									
DC Injection Current (mA)	<0.5%									
Grid Frequency Range	45-55 or 55-65 (Optional)									
Efficiency										
Max. Efficiency	98.7%									
Euro Efficiency	98.3%									
MPPT Efficiency	>99%									
Protection										
DC Reverse-Polarity Protection					50.1					
AC Short Circuit Protection	Yes									
AC Output Overcurrent Protection	Yes									
Output Overvoltage Protection	Yes									
Insulation Resistance Protection	Yes									
Ground Fault Monitoring	Yes									
Anti-islanding Protection	Yes									
Temperature Protection	Yes									
Integrated DC Switch	Yes									
Remote software upload	Yes									
Remote change of operating parameters	Yes									
Surge protection	DC Type II / AC Type II									
General Data										
Size (mm)	826W×516H×312.7D (Excluding connectors and brackets)									
Weight (kg)	81									
Topology	Transformerless									
Internal Consumption	<1W (Night)									
Running Temperature	-25~65℉, >45℉ derating									
Ingress Protection	IP65									
Noise Emission (Typical)	≤55 dB									
Cooling Concept	Smart cooling									
Max. Operating Altitude Without Derating	4000m									
Warranty	8 years									
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, CEI 0-16, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105, VDE-AR-N 4110									
Operating Surroundings Humidity	0-100%									
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2									
Features										
Display	LCD 240 × 160									
Interface	RS485/RS232/Wifi/LAN									

Three Phase String Inverter

SUN-120 / 125 / 130 / 135 / 136K-G01P3-EU-AM8



8 MPP trackers,
Max. efficiency up to 98.8%



Zero export application, VSG application



String intelligent monitoring



Wide output voltage range



Anti-PID function



Type II DC/AC SPD

Technical Data

Model	SUN-120K-G01P3 -EU-AM8	SUN-125K-G01P3 -EU-AM8	SUN-130K-G01P3 -EU-AM8	SUN-135K-G01P3 -EU-AM8	SUN-136K-G01P3 -EU-AM8
Input Side					
Max. DC Input Power (kW)	180	187.5	195	202.5	204
Max. DC Input Voltage (V)	1100				
Start-up DC Input Voltage (V)	250				
MPPT Operating Range (V)	200-1000				
Max. DC Input Current (A)	40+40+40+40+40+40+40				
Max. Short Circuit Current (A)	60+60+60+60+60+60+60				
No.of MPP Trackers	8				
No.of Strings per MPP Tracker	4+4+4+4+4+4+4				
Output Side					
Rated Output Power (kW)	120	125	130	135	136
Max. Active Power (kW)	132	135	135	135	136
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)				
Rated Grid Frequency (Hz)	50 / 60 (Optional)				
Operating Phase	Three Phase				
Rated AC Grid Output Current (A)	181.9/174	189.4/181.2	197/188.5	204.6/195.7	206.1/197.2
Max. AC Output Current (A)	200/191.4	204.6/195.7	204.6/195.7	204.6/195.7	206.1/197.2
Output Power Factor	>0.99				
Total Harmonics Current Distortion (THDi)	<3%				
DC Injection Current (mA)	<0.5%				
Grid Frequency Range	45-55 or 55-65 (Optional)				
Efficiency					
Max. Efficiency	98.8%				
Euro Efficiency	98.3%				
MPPT Efficiency	>99%				
Protection					
DC Reverse-Polarity Protection	Yes				
AC Short Circuit Protection	Yes				
AC Output Overcurrent Protection	Yes				
Output Overvoltage Protection	Yes				
Insulation Resistance Protection	Yes				
Ground Fault Monitoring	Yes				
Anti-islanding Protection	Yes				
Temperature Protection	Yes				
Integrated DC Switch	Yes				
Remote Software Upload	Yes				
Remote Change of Operating Parameters	Yes				
Surge Protection	DC Type II / AC Type II				
General Data					
Size (mm)	1006W×516H×325.5D (Excluding Connectors and Brackets)				
Weight (kg)	103				
Topology	Transformerless				
Internal Consumption	<1W (Night)				
Running Temperature	-25 to +60°C, >45°C Derating				
Ingress Protection	IP65				
Noise Emission (Typical)	≤65 dB				
Cooling Concept	Smart Cooling				
Permissible Altitude (m)	4000				
Designed Lifetime	8 Years				
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, CEI 0-16, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105, VDE-AR-N 4110				
Operating Surroundings Humidity	0-100%				
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
Features					
Display	LCD 240 × 160				
Interface	RS485/RS232/Wifi/LAN				