

# Three Phase String Inverter

SUN-70/75/80/90/100/110K-G03



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



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



Type II DC/AC SPD

**Deye**

Stock Code: 605117.SH

Model	SUN-70K-G03	SUN-75K-G03	SUN-80K-G03	SUN-90K-G03	SUN-100K-G03	SUN-110K-G03
<b>Input Side</b>						
Max. DC Input Power (kW)	91	97.5	104	135	150	150
Max. DC Input Voltage (V)	1000					
Start-up DC Input Voltage (V)	250					
MPPT Operating Range (V)	200-850					
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		
No. of MPP Trackers	4			6		
No. of Strings per MPP Tracker	4+4+4+4			4+4+4+4+4+4		
<b>Output Side</b>						
Rated Output Power (kW)	70	75	80	90	100	110
Max. Active Power (kW)	77	82.5	88	99	110	121
Nominal Output Voltage / Range (V)	3L/N/PE 220/380V, 230/400V					
Rated Grid Frequency (Hz)	50 / 60 (Optional)					
Operating Phase	Three Phase					
Rated AC Grid Output Current (A)	106.1/101.5	113.6/108.7	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	125/119.6	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					
Grid Current THD	<3%					
DC Injection Current (mA)	<0.5%					
Grid Frequency Range	47-52 or 57-62 (Optional)					
<b>Efficiency</b>						
Max. Efficiency	98.8%					
Euro Efficiency	98.3%					
MPPT Efficiency	>99%					
<b>Protection</b>						
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					
<b>General Data</b>						
Cabinet Size (WxHxD mm)	838×568×326 (Excluding Connectors and Brackets)					
Weight (kg)	81					
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25-65°C, >45°C Derating					
Ingress Protection	IP65					
Noise Emission (Typical)	≤55 dB					
Cooling Concept	Smart Cooling					
Max. Operating Altitude Without Derating	2000m					
Warranty	5 Years					
Grid Connection Standard	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150					
Operating Surroundings Humidity	0-100%					
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					
<b>Features</b>						
DC Connection	MC-4 Mateable					
AC Connection	IP65 Rated Plug					
Display	LCD 240 × 160					
Interface	RS485/RS232/Wifi/LAN					