

# Three Phase String Inverter

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



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

**Deye**

Stock Code: 605117.SH

Model	SUN-60K-G	SUN-70K-G	SUN-75K-G	SUN-80K-G
<b>Input Side</b>				
Max. DC Input Power (kW)	78	91	97.5	104
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			
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		
<b>Output Side</b>				
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
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)			
<b>Efficiency</b>				
Max. Efficiency	98.7%			
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)	700×575×297 (Excluding Connectors and Brackets)			
Weight (kg)	60			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25-65°C, >45°C Derating			
Ingress Protection	IP65			
Noise Emission (Typical)	≤50 dB	≤55 dB		
Cooling Concept	Smart Cooling			
Permissible Altitude (m)	2000			
Warranty	5 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			
<b>Features</b>				
Display	LCD 240 × 160			
Interface	RS485/RS232/Wifi/LAN			