

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		
PV String Input Data									
Max. PV Input Power (kW)		78		91		97.5		104	
Max. PV Input Voltage (V)		1000							
Start-up Voltage (V)		250							
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 MPP Trackers/ No. of Strings per MPP Tracker		4/3+3+3+3		4/4+4+4+4					
AC Output Side									
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 II(AC)							
Interface									
Communication Interface		RS485/RS232 /WiFi/LAN							
General Data									
Operating Temperature Range (°C)		-25 to +60°C, >45°C Derating							
Permissible Ambient Humidity		0-100%							
Permissible Altitude (m)		4000m							
Noise (dB)		≤50		≤55					
Ingress Protection(IP) Rating		IP 65							
Inverter Topology		Non-Isolated							
Over Voltage Category		OVC II(DC), OVC III(AC)							
Cabinet Size (WxHxD mm)		700×575×297 (Excluding Connectors and Brackets)							
Weight (kg)		60							
Warranty		5 Years							
Type of Cooling		Intelligent Air 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							