







Three Phase String Inverter(LV)

SUN-6/8K-G03-LV SUN-6/8K-G05-LV



-  127/220Vac, 133/230Vac and 60/50Hz, Three phase system
-  2 MPP trackers, Max. efficiency up to 98.5%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

Model	SUN-6K-G03-LV	SUN-8K-G03-LV	SUN-6K-G05-LV	SUN-8K-G05-LV
Input Side				
Max. DC Input Power (kW)	7.8	10.4	7.8	10.4
Max. DC Input Voltage (V)	800			
Start-up DC Input Voltage (V)	250			
MPPT Operating Range (V)	200-700			
Max. DC Input Current (A)	13+13	13+26	13+13	13+26
Max. Short Circuit Current (A)	19.5+19.5	19.5+39	19.5+19.5	19.5+39
No.of MPP Trackers	2			
No.of Strings per MPP Tracker	1+1	1+2	1+1	1+2
Output Side				
Rated Output Power (kW)	6	8	6	8
Max. Active Power (kW)	6.6	8.8	6	8
Grid Connection Form	3L/N/PE 127V/220V		3L/N/PE 133V/230V	
Rated Grid Frequency (Hz)	60Hz/55Hz-65Hz		50Hz/45Hz-55Hz	
Operating Phase	Three Phase			
Rated AC Grid Output Current (A)	15.7	21	15.1	20.1
Max. AC Output Current (A)	17.3	23.1	15.1	20.1
Output Power Factor	0.8 leading to 0.8 lagging			
Total Harmonics Current Distortion (THDi)	<3%			
DC Injection Current (mA)	<0.5%			
Efficiency				
Max. Efficiency	98.3%	98.5%	98.3%	98.5%
Euro Efficiency	97.5%			
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)	332×457×203 (Excluding Connectors and Brackets)	332×472×203 (Excluding Connectors and Brackets)	332×457×203 (Excluding Connectors and Brackets)	332×472×203 (Excluding Connectors and Brackets)
Weight (kg)	11	15	11	15
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25-65°C, >45°C Derating			
Ingress Protection	IP65			
Noise Emission (Typical)	≤30 dB	≤40 dB	≤30 dB	≤40 dB
Cooling Concept	Free Cooling	Smart Cooling	Free Cooling	Smart Cooling
Permissible Altitude (m)	4000			
Warranty	10 Years			
Grid Connection Standard	NBR 16149, NBR 16150, EN 50549, RD 140			
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	LCD1602			
Interface	RS485/RS232/Wifi/LAN			