

Three Phase String Inverter(LV)

SUN-20/25/30K-G02-LV SUN-23/25/30K-G03-LV



127/220Vac, 133/230Vac and 60/50Hz,
Three phase system



Max. 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)

Deye

Stock Code: 605117.SH

Model	SUN-20K-G02-LV SUN-25K-G02-LV SUN-30K-G02-LV SUN-23K-G03-LV SUN-25K-G03-LV SUN-30K-G03-LV					
Input Side						
Max. DC Input Power (kW)	26	32.5	39	29.9	32.5	39
Max. DC Input Voltage (V)	800					
Start-up DC Input Voltage (V)	250					
MPPT Operating Range (V)	200-700					
Max. DC Input Current (A)	40+40	40+40+40	40+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+60+60		60+60+60+60
No.of MPP Trackers	2	3	4	3		4
No.of Strings per MPP Tracker	3+3	3+3+3	3+3+3+3	3+3+3		3+3+3+3
Output Side						
Rated Output Power (kW)	20	25	30	23	25	30
Max. Active Power (kW)	22	27.5	33	23	25	30
Nominal Output Voltage / Range (V)	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)	52.5	65.6	78.7	57.7	62.7	75.2
Max. AC Output Current (A)	57.8	72.2	86.6	57.7	62.7	75.2
Output Power Factor	0.8 leading to 0.8 lagging					
Grid Current THD	<3%					
DC Injection Current (mA)	<0.5%					
Efficiency						
Max. Efficiency	98.7%					
Euro Efficiency	98%					
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)	647.5×537×303.5 (Excluding Connectors and Brackets)					
Weight (kg)	44.5					
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25-65°C, >45°C Derating					
Ingress Protection	IP65					
Noise Emission (Typical)	≤50 dB					
Cooling Concept	Smart Cooling					
Permissible Altitude (m)	2000					
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					
Features						
DC Connection	MC-4 Mateable					
AC Connection	IP65 Rated Plug					
Display	LCD1602					
Interface	RS485/RS232/Wifi/LAN					