

# Three Phase String Inverter (LV)

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



127/220Vac and 60Hz, Three phase system



Max. 4 MPP tracker, Max. efficiency up to 98.7%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Ani-PID function (Optional)

**Deye**

*Clean Power For You*

Model	SUN-20K-G02-LV	SUN-25K-G02-LV	SUN-30K-G02-LV
<b>Input Side</b>			
Max. DC Input Power (kW)	26	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
Max. Short Circuit Current (A)	60+60	60+60+60	60+60+60+60
Number of MPPT / Strings per MPPT	2 / 3	3 / 3	4 / 3
<b>Output Side</b>			
Rated Output Power (kW)	20	25	30
Max. Active Power (kW)	22	27.5	33
Rated AC Grid Voltage (V)		127 / 220	
AC Grid Voltage Range (V)		176Vac~242Vac (this may vary with grid standards)	
Rated Grid Frequency (Hz)		60 / 50 (Optional)	
Operating Phase		Three phase	
Rated AC Grid Output Current (A)	52.5	65.6	78.7
Max. AC Output Current (A)	57.8	72.2	86.6
Output Power Factor		0.8 leading to 0.8 lagging	
Grid Current THD		<3%	
DC Injection Current (mA)		<0.5%	
Grid Frequency Range		57~62	
<b>Efficiency</b>			
Max. Efficiency		98.7%	
Euro Efficiency		98%	
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>			
Size (mm)		647.5W×537H×303.5D	
Weight (kg)		44.5	
Topology		Transformerless	
Internal Consumption		<1W (Night)	
Running Temperature		-25~65°C	
Ingress Protection		IP65	
Noise Emission (Typical)		<45 dB	
Cooling Concept		Smart cooling	
Max. Operating Altitude Without Derating		2000m	
Designed Lifetime		>20 years	
Grid Connection Standard		ABNT NBR 16149, ABNT NBR 16150, ABNT NBR IEC 62116	
Operating Surroundings Humidity		0-100%	
Safety EMC / Standard		IEC62109-1/-2, IEC61000-6-2, IEC61000-6-4, IEC61000-3-11, IEC61000-3-12	
<b>Features</b>			
DC Connection		MC-4 mateable	
AC Connection		IP65 rated plug	
Display		LCD 240 × 160	
Interface		RS485/RS232/Wifi/LAN	