







# Three Phase String Inverter(LV)

SUN-33/35/40/45/50K-G-LV



-  120V/208V, 127V/220V, 133V/230V and 50/60Hz, Three phase system
-  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-35K -G02-LV	SUN-40K -G-LV	SUN-45K -G-LV	SUN-50K -G-LV	SUN-33K -G-LV	SUN-35K -G-LV	SUN-40K -G-LV	SUN-45K -G-LV	SUN-50K -G-LV	
<b>Input Side</b>										
Max. DC Input Power (kW)	45.5	52	58.5	65	42.9	45.5	52	58.5	65	
Max. DC Input Voltage (V)	800									
Start-up DC Input Voltage (V)	250									
MPPT Operating Range (V)	200-700									
Max. DC Input Current (A)	30+30+30+30				40+40+40+40					
Max. Short Circuit Current (A)	45+45+45+45				60+60+60+60					
No. of MPP Trackers	4									
No. of Strings per MPP Tracker	3+3+3+3	4+4+4+4			3+3+3+3	4+4+4+4				
<b>Output Side</b>										
Rated Output Power (kW)	35	40	45	50	33	35	40	45	50	
Max. Active Power (kW)	38.5	44	49.5	55	33	35	40	45	50	
Rated Output Voltage/Range (V)	3L/N/PE 127V/220V 0.85Un-1.1Un (this may vary with grid standards)				3L/N/PE 120V/208V, 127V/220V, 133V/230V 0.85Un-1.1Un (this may vary with grid standards)					
Rated Grid Frequency (Hz)	60				50/60					
Operating Phase	Three Phase									
Rated AC Grid Output Current (A)	91.9	104.9	118.1	131.2	91.7/86.7/82.8	97.3/91.9/87.8	111.2/105/100.3	125/118.2/112.8	138.9/131.3/125.4	
Max. AC Output Current (A)	101.1	115.5	129.9	144.4	91.7/86.7/82.8	97.3/91.9/87.8	111.2/105/100.3	125/118.2/112.8	138.9/131.3/125.4	
Output Power Factor	0.8 leading to 0.8 lagging									
Total Harmonics Current Distortion (THDi)	<3%									
DC Injection Current (mA)	<0.5%									
<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			≤55 dB			≤55 dB		
Cooling Concept	Smart Cooling									
Permissible Altitude (m)	2000									
Warranty	5 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									
<b>Features</b>										
Display	LCD 240 × 160									
Interface	RS485/RS232/Wifi/LAN									