

# Three Phase String Inverter(LV)

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



127/220Vac and 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	4			3	4				
<b>Output Side</b>										
Rated Output Power (kW)	35	40	34.5	50	33	35	40	45	50	
Max. Active Power (kW)	38.5	44	49.5	55	33	35	40	45	50	
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)	91.9	104.9	118.1	131.2	82.8	87.8	100.3	112.8	125.4	
Max. AC Output Current (A)	101.1	115.5	129.9	144.4	82.8	87.8	100.3	112.8	125.4	
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	98.3%									
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>										
Size (mm)	700W×575H×297D									
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									
Max. Operating Altitude Without Derating	2000m									
Warranty	5 years									
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11									
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>										
DC Connection	MC-4 mateable									
AC Connection	IP65 rated plug									
Display	LCD 240 × 160									
Interface	RS485/RS232/Wifi/LAN									