

Three Phase String Inverter(LV)

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



127/220Vac, 133/230Vac and 60/50Hz,
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
Input Side									
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	
Output Side									
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
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								
Efficiency									
Max. Efficiency	98.7%								
Euro Efficiency	98.3%								
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)	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								
Max. Operating Altitude Without Derating	2000m								
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	LCD 240 × 160								
Interface	RS485/RS232/Wifi/LAN								