

Three Phase String Inverter (LV)

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



LV 127/220Vac and 60Hz, Three phase system

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

0 Zero export application, VSG application

G String intelligent monitoring (optional)

W Wide output voltage range

PID Ani-PID function (Optional)

Deye

Clean Power For You

Model	SUN-40K-G-LV	SUN-45K-G-LV	SUN-50K-G-LV
Input Side			
Max. DC Input Power (kW)	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)		40+40+40+40	
Number of MPPT / Strings per MPPT		4 / 4	
Output Side			
Rated Output Power (kW)	40	45	50
Max. Active Power (kW)	44	49.5	55
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)	104.9	118.1	131.2
Max. AC Output Current (A)	115.5	129.9	144.4
Output Power Factor		0.8 leading to 0.8 lagging	
Grid Current THD		<2%	
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			
Size (mm)		700Wx575Hx297D	
Weight (kg)		60	
Topology		Transformerless	
Internal Consumption		<1W (Night)	
Running Temperature		-25~65°C	
Ingress Protection		IP65	
Noise Emission (Typical)		<55 dB	
Cooling Concept		Smart cooling	
Max. Operating Altitude Without Derating		2000m	
Designed Lifetime		>20 years	
Grid Connection Standard		EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2	
Operating Surroundings Humidity		0-100%	
Safety EMC / Standard		IEC62109-1/-2, EN61000-6-1, EN61000-6-3	
Features			
DC Connection		MC-4 mateable	
AC Connection		IP65 rated plug	
Display		LCD 240 x 160	
Interface		RS485/RS232/Wifi/LAN	