

Three Phase String Inverter(LV)

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



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-33K-G-LV	SUN-35K-G-LV	SUN-40K-G-LV	SUN-45K-G-LV	SUN-50K-G-LV
PV String Input Data					
Max. PV Input Power (kW)	42.9	45.5	52	58.5	65
Max. PV Input Voltage (V)	800				
Start-up Voltage (V)	250				
MPPT Voltage Range (V)	200-700				
Rated PV Input Voltage (V)	400				
Max. Operating PV Input Current (A)	40+40+40+40				
Max. Input Short Circuit Current (A)	60+60+60+60				
No. of MPP Trackers/ No. of Strings per MPP Tracker	4/3+3+3+3		4/4+4+4+4		
AC Output Side					
Rated AC Output Active Power (kW)	33	35	40	45	50
Max. AC Output Apparent Power (kVA)	33	35	40	45	50
Rated AC Output Current (A)	86.7/82.8	91.9/87.8	105/100.3	118.2/112.8	131.3/125.4
Max. AC Output Current (A)	86.7/82.8	91.9/87.8	105/100.3	118.2/112.8	131.3/125.4
Rated Output Voltage/Range (V)	127V/220V, 133V/230V 0.85UN-1.1UN				
Grid Connection Form	3L/N/PE				
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Total Current Harmonic Distortion THDi	<3%				
DC Injection Current	<0.5%In				
Efficiency					
Max. Efficiency	98.7%				
MPPT Efficiency	>99%				
Equipment Protection					
DC Polarity Reverse Connection Protection	Yes				
AC Output Overcurrent Protection	Yes				
AC Output Overvoltage Protection	Yes				
AC Output Short Circuit Protection	Yes				
Thermal Protection	Yes				
DC Terminal Insulation Impedance Monitoring	Yes				
DC Component Monitoring	Yes				
Ground Fault Current Monitoring	Yes				
Power Network Monitoring	Yes				
Island Protection Monitoring	Yes				
Earth Fault Detection	Yes				
Overvoltage Load Drop Protection	Yes				
Residual Current (RCD) Detection	Yes				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
Communication Interface	RS485/RS232				
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)				
General Data					
Operating Temperature Range (°C)	-25 to +65°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude (m)	2000m				
Noise (dB)	≤50		≤55		
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	700×575×297 (Excluding Connectors and Brackets)				
Weight (kg)	60				
Warranty	5 Years				
Type of Cooling	Intelligent Air Cooling				
Grid Regulation	NBR 16149, NBR 16150, EN 50549, RD 140				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

Three Phase String Inverter(LV)

SUN-18/20/21K-G04-LV



127V/220V, 133V/230V and
50/60Hz, Three phase system



2 MPP trackers, Max. efficiency up to 98.6%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Deye

Stock Code: 605117.SH

Model	SUN-18K-G04-LV	SUN-20K-G04-LV	SUN-21K-G04-LV
PV String Input Data			
Max. PV Input Power (kW)	23.4	26	27.3
Max. PV Input Voltage (V)	800		
Start-up Voltage (V)	250		
MPPT Voltage Range (V)	200-700		
Rated PV Input Voltage (V)	350		
Max. Operating PV Input Current (A)	40+40		
Max. Input Short Circuit Current (A)	60+60		
No. of MPP Trackers/ No. of Strings per MPP Tracker	2/3+3		
AC Output Side			
Rated AC Output Active Power (kW)	18	20	21
Max. AC Output Apparent Power (kVA)	18	20	21
Rated AC Output Current (A)	47.3/45.2	52.5/50.2	55.2/52.7
Max. AC Output Current (A)	47.3/45.2	52.5/50.2	55.2/52.7
Rated Output Voltage/Range (V)	127V/220V, 133V/230V 0.85UN-1.1UN		
Grid Connection Form	3L/N/PE		
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Total Current Harmonic Distortion THDi	<3%		
DC Injection Current	<0.5In		
Efficiency			
Max. Efficiency	98.6%		
MPPT Efficiency	>99%		
Equipment Protection			
DC Reverse Polarity Protection	Yes		
AC Output Overcurrent Protection	Yes		
AC Output Overvoltage Protection	Yes		
AC Output Short Circuit Protection	Yes		
Thermal Protection	Yes		
Insulation Impedance Detection	Yes		
DC Component Monitoring	Yes		
Arc Fault Circuit Interrupter (AFCI)	Optional		
Anti-islanding Protection	Yes		
Residual Current Detection	Yes		
Surge Protection Level	TYPE II(DC), TYPE II(AC)		
DC Switch	Yes		
Interface			
Communication Interface	RS485/RS232		
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)		
General Data			
Operating Temperature Range (°C)	-25 to +65°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude (m)	2000m		
Noise (dB)	≤50		
Ingress Protection(IP) Rating	IP 65		
Inverter Topology	Non-Isolated		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Cabinet Size (WxHxD mm)	362×577×215 (Excluding Connectors and Brackets)		
Weight (kg)	23		
Warranty	5 Years		
Type of Cooling	Intelligent Air Cooling		
Grid Regulation	NBR 16149, NBR 16150, EN 50549, RD 140		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		

Three Phase String Inverter(LV)

SUN-23/25/30K-G04-LV



127V/220V, 133V/230V and
50/60Hz, Three phase system



Max. 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)

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Stock Code: 605117.SH

Model	SUN-23K-G04-LV	SUN-25K-G04-LV	SUN-30K-G04-LV
PV String Input Data			
Max. PV Input Power (kW)	29.9	32.5	39
Max. PV Input Voltage (V)	800		
Start-up Voltage (V)	250		
MPPT Voltage Range (V)	200-700		
Rated PV Input Voltage (V)	400		
Max. Operating PV Input Current (A)	40+40+40	40+40+40+40	
Max. Input Short Circuit Current (A)	60+60+60	60+60+60+60	
No. of MPP Trackers/ No. of Strings per MPP Tracker	3/3+3+3	4/3+3+3+3	
AC Output Side			
Rated AC Output Active Power (kW)	23	25	30
Max. AC Output Apparent Power (kVA)	23	25	30
Rated AC Output Current (A)	60.4/57.7	65.7/62.7	78.8/75.2
Max. AC Output Current (A)	60.4/57.7	65.7/62.7	78.8/75.2
Rated Output Voltage/Range (V)	127V/220V, 133V/230V 0.85UN-1.1UN		
Grid Connection Form	3L/N/PE		
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Total Current Harmonic Distortion THDi	<3%		
DC Injection Current	<0.5%In		
Efficiency			
Max. Efficiency	98.7%		
MPPT Efficiency	>99%		
Equipment Protection			
DC Reverse Polarity Protection	Yes		
AC Output Overcurrent Protection	Yes		
AC Output Overvoltage Protection	Yes		
AC Output Short Circuit Protection	Yes		
Thermal Protection	Yes		
Insulation Impedance Detection	Yes		
DC Component Monitoring	Yes		
Arc Fault Circuit Interrupter (AFCI)	Optional		
Anti-islanding Protection	Yes		
Residual Current Detection	Yes		
Surge Protection Level	TYPE II(DC), TYPE II(AC)		
DC Switch	Yes		
Interface			
Communication Interface	RS485/RS232		
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)		
General Data			
Operating Temperature Range (°C)	-25 to +65°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude (m)	4000m		
Noise (dB)	≤65		
Ingress Protection(IP) Rating	IP 65		
Inverter Topology	Non-Isolated		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Cabinet Size (WxHxD mm)	434×570×243 (Excluding Connectors and Brackets)		
Weight (kg)	37.1		
Warranty	5 Years		
Type of Cooling	Intelligent Air Cooling		
Grid Regulation	NBR 16149, NBR 16150, EN 50549, RD 140		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		