



Grid-connected PV Inverter

SUN-18K-G04

SUN-20K-G04

SUN-25K-G04

User Manual



11.Specification

Model	SUN-18K-G04	SUN-20K-G04	SUN-25K-G04
Input Side			
Max.DC Power(kW)	23.4kW	26kW	32.5kW
Max.DC Input Voltage(V)		1000V	
Start-up DC Input Voltage(V)		250V	
MPPT Operating Range(V)		200V-850V	
Rated DC input voltage(V)		600V	
MPPT Full Power Voltage Range(V)	500V-850V		500V-850V
Max.DC Input Current(A)		32A+32A	
Max. Short Circuit Current (A)		48A+48A	
Number of MPPT/Strings per MPPT		2/3+3	
MAX inverter backfeed current (A)		0A	
Output Side			
Rated Output Power(kW)	18kW	20kW	25kW
Max.Active Power(kW)	19.8kW	22kW	27.5kW
Rated AC Grid Voltage(V)		3L/N/PE 220/380V 230/400V	
AC Grid Voltage Range(V)		0.85Un-1.1Un (this may vary with grid standards)	
Rated Grid Frequency(Hz)		50/60 (Optional)	
Operating Phase		Three phase	
Rated AC Grid Output Current(A)	27.3/26.1A	30.3/29A	37.9/36.2A
Max.AC Output Current(A)	30/28.7A	33.3/31.9A	41.7/39.8A
Maximum output fault current (a.c. A, peak)	49.8A	55.4A	69.1A
Maximum output overcurrent protection (a.c. A, peak)	55.4A	61.5A	76.8A
Output Power Factor		0.8 leading to 0.8 lagging	
Grid Current THD		<3%	
DC Injection Current		<0.5%	
Grid Frequency Range		45-55 or 55-65 (Optional)	
Efficiency			
Max.Efficiency		98.5%	
Euro Efficiency		97.8%	
MPPT Efficiency		>99%	
Surge Protection		DC Type II / AC Type II	
General Data			
Cabinet Size(W*H*D) [mm]		362×577×215 (Excluding Connectors and Brackets)	
Weight(kg)		23	
Topology		Transformerless	
Internal consumption		<1W (Night)	
Operating temperature		-25 to +65°C,>45°C derating	
Ingress protection		IP65	
Noise Emission(Typical)		≤ 40dB(A)	
Type Of Cooling		Smart cooling	
Permissible Altitude (m)		2000m	
Warranty [year]		Standard 5 years, extended warranty	
Grid Connection Standard		IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105	
Operation surrounding humidity		0-100%	
Safety EMC / Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	

General Data	
Display	LCD 1602
Interface	RS485/RS232/Wifi/LAN
Protective Class	Class I
Over Voltage Category	III (AC), II (DC)
Inverter Topology	Non-is olated
Pollution degree	PD2(Inside), PD3(Outside)

12. EU Declaration of Conformity

within the scope of the EU directives

- Electromagnetic compatibility 2014/30/EU (EMC)
- Low Voltage Directive 2014/35/EU (LVD)
- Restriction of the use of certain hazardous substances 2011/65/EU(RoHS)



NINGBO DEYE INVERTER TECHNOLOGY CO.,LTD confirms herewith that the products described in this document are in compliance with the fundamental requirements and other relevant provisions of the above mentioned directives. The entire EU Declaration of Conformity can be found at www.deyeinverter.com.

Please scan the QR code to download the certification.

