

Three Phase String Inverter

SUN-60/70/75/80K-G



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)



Type II DC/AC SPD

Deye

Stock Code: 605117.SH

Model	SUN-60K-G		SUN-70K-G		SUN-75K-G		SUN-80K-G			
PV String Input Data										
Max. PV Input Power (kW)			78		91		97.5		104	
Max. PV Input Voltage (V)			1000							
Start-up Voltage (V)			250							
MPPT Voltage Range (V)			200-850							
Rated PV Input Voltage (V)			600							
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)			60		70		75		80	
Max. AC Output Apparent Power (kVA)			66		77		82.5		88	
Rated AC Output Current (A)			90.9/87		106.1/101.5		113.6/108.7		121.2/115.9	
Max. AC Output Current (A)			100/95.7		116.7/111.6		125/119.6		133.3/127.5	
Rated Output Voltage/Range (V)			220/380V, 230/400V 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			98.6%		98.7%					
Euro Efficiency			98.0%		98.1%					
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 /WiFi/LAN							
General Data										
Operating Temperature Range (°C)			-25 to +60°C, >45°C Derating							
Permissible Ambient Humidity			0-100%							
Permissible Altitude (m)			4000m							
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			IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105							
Safety EMC/Standard			IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2							

EU Declaration of Conformity

Product: **Grid-connected PV Inverter**

Models: SUN-60K-G;SUN-70K-G;SUN-75K-G;SUN-80K-G

Name and address of the manufacturer: Ningbo Deye Inverter Technology Co., Ltd.

No. 26 South YongJiang Road, Daqi, Beilun, NingBo, China

This declaration of conformity is issued under the sole responsibility of the manufacturer. Also this product is under manufacturer's warranty.

This declaration of conformity is not valid any longer: if the product is modified, supplemented or changed in any other way, as well as in case the product is used or installed improperly.

The object of the declaration described above is in conformity with the relevant Union harmonization legislation: The Low Voltage Directive (LVD) 2014/35/EU;the Electromagnetic Compatibility (EMC) Directive 2014/30/EU;the restriction of the use of certain hazardous substances (RoHS) Directive 2011/65/EU.

References to the relevant harmonized standards used or references to the other technical specifications in relation to which conformity is declared:

LVD:	
EN 62109-1:2010	●
EN 62109-2:2011	●
EMC:	
EN 61000-6-2:2005	●
EN 61000-6-4:2007+A1:2011	●

Nom et Titre / Name and Title:

Bard Dai
Senior Standard and Certification Engineer

Au nom de / On behalf of:

Ningbo Deye Inverter Technology Co., Ltd.

Date / Date (yyyy-mm-dd):

2023-09-27

A / Place:

Ningbo, China