

Deye

Model No.: SUN-12K-SG05LP2-US-SM3

Product type	Hybrid inverter
Ingress Protection(IP) Rating	NEMA 3R, IP65
Operating Temperature Range	-40 to +60°C (-45°C derating)
Protection Class	Class I
Over Voltage Category	IV (AC), II (DC)
Inverter topology	Non-isolated

PV Input Data

Max. PV Input Voltage	500Vd.c.
MPPT Input Range	150Vd.c.-425Vd.c.
Max. PV Input Current	32Ad.c.+32Ad.c.+32Ad.c.
Max. PV I_{sc}	60Ad.c.+60Ad.c.+60Ad.c.

Battery Data

Battery Type	Lead-acid or Lithium-ion
Battery Voltage	48Vd.c.(40V-60V)
Max. Charging /Discharging Current	220Ad.c.

AC Input/Output Data

AC Input/Output Voltage	2L+N+PE,120V/240V,208V
AC Input/Output Frequency	60Hz
AC Input/Output Rated Current	50Aa.c.
Max. AC Input/Output Current	50Aa.c.
AC Input/Output Rated Power	12000W
Max. Apparent Input/Output Power	12000VA
Max. Continuous AC Passthrough	24000W 100Aa.c.
Power Factor Range	0.8 leading to 0.8 lagging

Load Data

AC Output Voltage	2L+N+PE,120V/240V,208V
AC Output Frequency	60Hz
Max. AC Output Current	50Aa.c.
Max. Apparent Output Power	12000VA
Peak Output Power	24000W 10Seconds

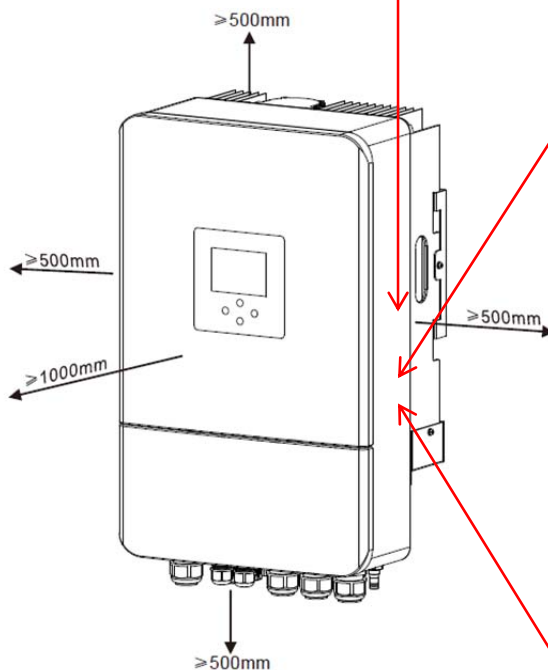
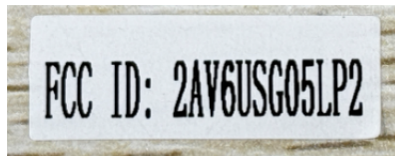
This Grid support Interactive Inverter complies with UL 1741-2021 (incl UL1741SB), CSA C22.2 No. 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0), UL1699B Arc-Fault Circuit-protection Type 1.



Safety Warning

- The AC and DC circuits must be disconnected and the maintenance personnel must wait for 5 minutes before they are completely powered off before they can start working.
- It is strictly forbidden for users to open the casing. Professional maintenance is required for internal maintenance of the inverter.
- Surface high temperature, Please do not touch the inverter case.
- The DC input terminals of the inverter must not be grounded.
- Please read the instructions carefully before use.
- Do Not put it in the waste bin! Recycle it by licensed professional!

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MADE IN CHINA



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.