

# Application Notes



## **Ginlong Solis Inverter Enclosures are rated NEMA 4X**

Ginlong Technologies offers a full line of residential and commercial PV string inverters in the United States, ranging in size from 2.5 kilowatts to 40 kilowatts. Ginlong Solis inverters feature lightweight and attractive enclosures that take up less space than other PV string inverters on the market.

Ginlong Solis uses the same type of enclosure materials and design across the US inverter product line. The enclosure body is a powder-coated aluminum and the inverters are rated NEMA 4X. NEMA defines this rating as; "enclosures that are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water and hose-directed water, undamaged by the formation of ice on the enclosure".

When you look at the descriptions of NEMA 4 (equivalent to IP66) and NEMA 4X, the difference is the addition of corrosion resistance. The "X" designation indicates "corrosion resistance".

1. Ginlong uses a polyester TGIC powder-coat over a 5052-aluminum enclosure. Our coating meets the UL 1332 standard for type 4 protective coating and 5052 aluminum meets the standard for NEMA 4X enclosure materials (coated or un-coated)
2. Ginlong passes all corrosion resistance tests that are specified in UL 50, UL 50E, NEMA 250 and CSA 22.2 (requiring a "level of protection against corrosion" or a "degree of corrosion resistance" or "resists corrosion")
3. Ginlong has its own salt spray chamber at the Ningbo factory in China and the production team tests all Ginlong inverter enclosures to ensure they meet UL, NEMA and CSA standards and requirements for electrical enclosures.

Ginlong Solis offers a true NEMA 4X enclosure to our inverter customers.