



Manufacturer's Declaration

To Whom It May Concern:

Ginlong Solis, as the manufacturer of Solis inverters, declares that:

All Solis inverters are capable of detecting the loss of main situations and stop generating within the time threshold required by G99 and G98 regulations.

Instead of using passive detection methods like detecting Vector Shift or RoCoF, Solis inverters utilize active frequency shift method (Sandia Frequency Shift).

Once start generating, Solis inverters will introduce small perturbations in the AC output current. The injected perturbations produce insignificant variations in the grid frequency when the inverter is grid-connected, whereas significantly larger variations in grid frequency can be observed when the inverter is islanded.

As an active frequency shift method, the Sandia Frequency Shift can achieve a much more accurate protection as the passive detection methods can be greatly influenced when a large load or generator is switched on or off thus leading to a false tripping. Meanwhile, the slight current distortion introduced by the Sandia Frequency Shift is well controlled by the algorithm of the Solis inverters while the effect on the inverter output power quality is negligible.

Manufacture Stamp

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Date and Place

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