



Manufacturer's Declaration

To Benelux:

In some cases, installers may need, or desire, to load inverters over the recommended DC:AC ratio stated in the datasheet. These cases are typically evaluated on a site to site basis where Solis has access to site design documents. However, it is not always feasible or efficient to review every site design where a higher than suggested DC:AC ratio is desired.

Generally speaking, the biggest challenge for these designs is not the inverter specifications, but a combination of inverter specifications, panel parameters and the relevant code. PV system design requires a delicate balance of these parameters and when designing for a higher than recommended DC:AC ratio it is imperative to know which parameters are exceeded and consider code limitations.

For DC:AC ratios greater than datasheet values, the following criteria must be observed:

1. **Designed Operating Current(I_{mpp}) \leq 80% of Max Input Current(I_{sc})**
2. **String Open-Circuit Voltage(V_{oc} , lowest temperature scenario) < Inverter Max Input Voltage**

To handle current and input power above limits stated on the datasheet, built-in inverter controls will limit the input current and power for any MPPT by tracking off the Maximum Power Point. These controls are designed to protect the inverter and can adversely affect inverter output power.

With all the above voltage and current regulations met, Solis approves the use of Solis inverters in Belgium, Luxembourg and the Netherlands with the following DC:AC ratio configuration and it won't affect the warranty condition of the products.

- **Max 200% DC : AC Ratio**

Solis-(700-3600)W-mini-4G
Solis-1P(2.5-6)K-4G
Solis-1P(9-10)K-4G
Solis-1P(7-8)K-5G
Solis-3P(3-20)K-4G

- **Max 150% DC:AC Ratio**

Solis-(20-40)K
Solis-(40-70)K
Solis-(25-50)-5G
Solis-(80-110)K-5G
Solis-125K-EHV-5G

Manufacture Stamp

宁波锦浪新能源科技有限公司
NINGBO GINLONG TECHNOLOGIES CO., LTD.

Date and place
Ningbo
2019-12-04

Zhang Kun

Ningbo Ginlong Technologies Co., Ltd

No. 57 Jintong Road, Seafront (Binhai)
Industrial Park, Xiangshan, Ningbo, Zhejiang,
315712, P.R. China
Tel: (+86)57465803377