

G100 Declaration of SOFAR ME3000SP

1. Introduction

Engineering Recommendation G100: Technical Guidance for Customer Export Limiting Schemes, published by the ENA, “defines the technical design requirements for Export Limitation Schemes which limit the net site export to below an agreed maximum and are installed on the Customer’s side of the Connection Point”. The ME3000SP/SOFAR INVERTER comply with the Energy Networks Association, Engineering Recommendation G100 Issue 1 2016, Technical Guidance for Customer Export Limiting Schemes, when installed in accordance with this Engineering G100 application guide. This guide should be read in conjunction with the product installation, operation and maintenance manuals.

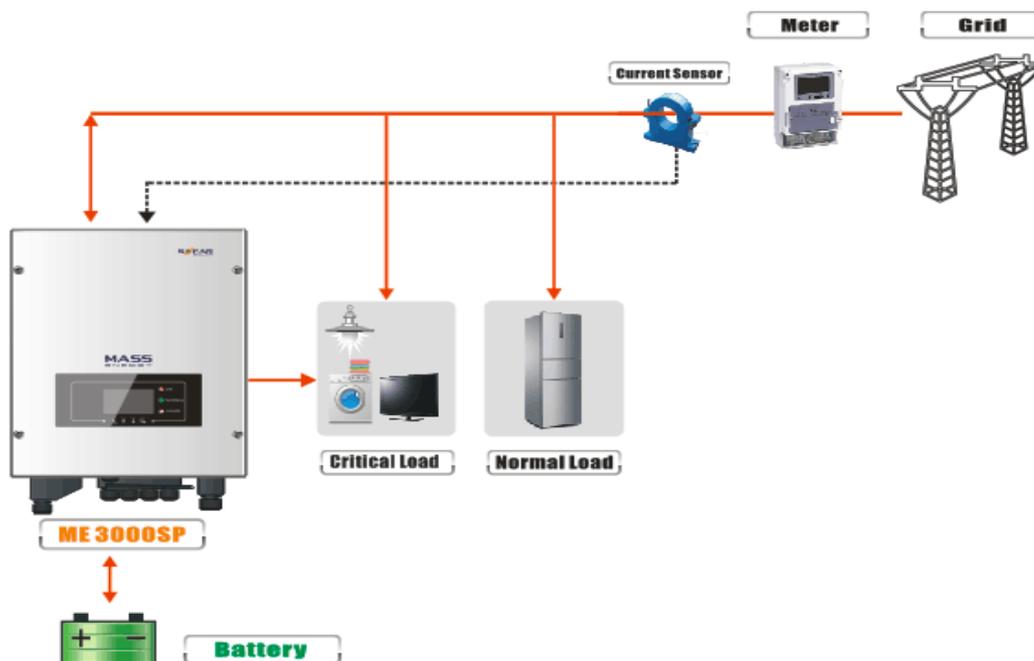
2. Description

G100 Requirement:

A description of the scheme, its settings, and a single line diagram should be permanently displayed on site.

1) Without PV inverter in the system

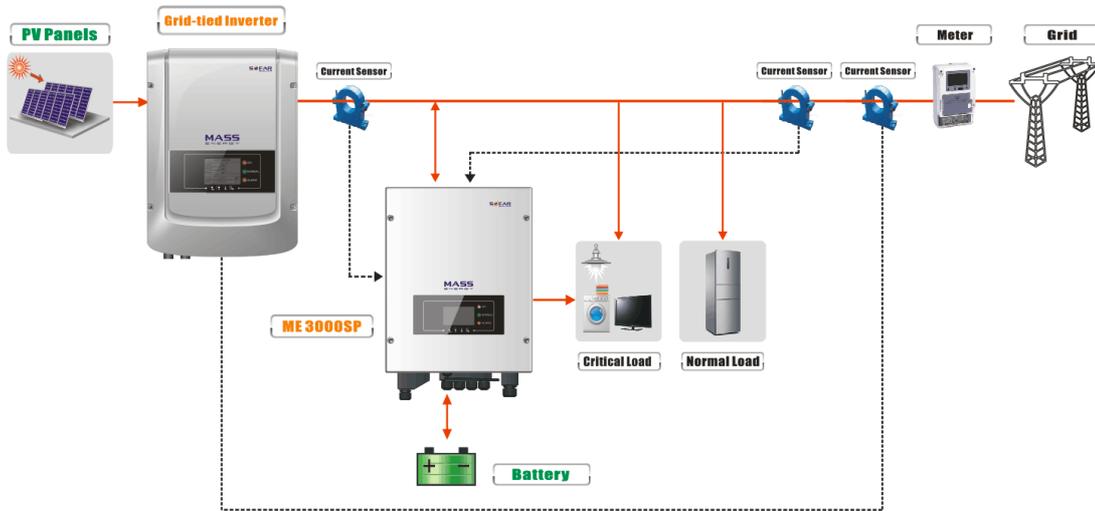
ME3000SP will limit the AC output when Current Sensor detect that there is power to export to the grid.





2) With SOFAR pv inverter in the system.

SOFAR inverter will limit the AC output when Current Sensor detect that there is power to export to the grid.



3. Fail safe Operation

G100 requirement:

Where discrete units are used they should preferably be interconnected using metallic or fibre optic cables. Alternatively the units may be interconnected using secure radio links but where this is the case these links should be licensed (by OFCOM) and have a planned availability of 99.9% or higher. Irrespective of the media used for interconnecting between the discrete units, if the communication path fails the generation output should be reduced to a nominal value stipulated by the DNO within a set response time to prevent the Agreed Export Capacity from being exceeded.

Safety test				
No	Test	Response	Time	Pass/Fail
1	Remove communication between ME3000SP and current sensor	Systems stops the output	within 5 seconds	Pass
2	Remove communication between SOFAR INVERTER and current sensor	Systems reduce power to a nominal value	within 5 seconds	Pass



4. Response Time

G100 requirement

The ELS must detect an excursion and reduce the export to the Agreed Export Capacity or less within 5seconds.

- The response time is less than 5seconds under communication loss between ME3000/SOFAR INVERTER and Current Sensor.

5. Password Protection

G100 requirement:

Once installed and commissioned, the scheme settings should not be capable of being readily altered by the Customer and should only be changed with the written agreement of the DNO.

- The SOFAR INVERTER settings are password protected.

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