## Ingeteam

## INGECON® SUN 1Play REACTIVE POWER CAPABILITY

INGETEAM S.R.L. certifies that the inverters,

INGECON SUN 2.5TL M
INGECON SUN 3.3TL M

**INGECON SUN 5 HF** 

INGECON SUN 5TL M INGE
INGECON SUN 2.5 HF INGE
INGECON SUN 3.3 HF INGE

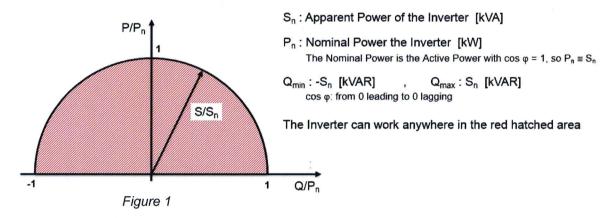
INGECON SUN 2.7TL M INGECON SUN 3.68TL M INGECON SUN 5.5TL M

INGECON SUN 2.7 HF INGECON SUN 3.68 HF INGECON SUN 5.5 HF INGECON SUN 3TL M
INGECON SUN 4.6TL M

INGECON SUN 6TL M

INGECON SUN 3 HF INGECON SUN 4.6 HF INGECON SUN 6 HF

are designed to operate according with the reactive power capability shown in the Figure 1.



In particular, the inverter can operate continuously anywhere within the red hatched area bounded by the value of the apparent power  $S_n$ , so that the maximum reactive power Q is defined by the equation:

$$Q_{\text{max}} = \sqrt{S_n^2 - P^2}$$

due to the absence of any other constraints, the Inverter is then able to operate from  $\cos \phi$  = 0 underexcited/leading to  $\cos \phi$  = 0 overexcited/lagging.

Ingeteam
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