

Solar Serisi Central Inverters

SOLAR POWER  
CENTRAL INVERTERS



### GENEL

Sirio Central inverters allow direct connection to the low voltage grid ensuring the galvanic separation compared to direct current installations. The generous rating of the transformer and the other inverter components provides a return of the highest among the machines of the same category.

#### **Maximum energy and safety**

The Maximum Power Point Tracking (MPPT) research algorithm implemented in the control system of Sirio Central inverters allows full use of the photovoltaic generator in any radiation and temperature conditions, making the plant work constantly at maximum efficiency. In the absence of solar radiation the converter goes on standby and resumes normal operation when there is radiation again. This feature reduces self-consumption to a minimum and maximizes energy efficiency. The use of speed-controlled fans helps to optimize the overall efficiency of the inverter. Fan operation that is linked to the temperature also increases the expected lifespan and reduces costs incurred for extraordinary maintenance. All these design features, the careful choice of components and guaranteed quality of production according to ISO 9001 standards make the three-phase inverters Sirio extremely efficient and reliable and guarantee maximum energy production.

#### **Advanced communication**

The Sirio Central series inverters have an intuitive man-machine interface, made up of an integrated display and keyboard with which it is possible to control the photovoltaic system's main parameters and interact with it to control its operation. The display and keyboard facilitate diagnosis and solutions to any operating problems at local level while interaction with the remote inverter is possible through the most common of media (local serial link, Local Area Network, GSM, etc.). Communication interfaces and related software are common to the family of Sirio TL inverters, which can be referred to for more detailed information.

#### **Easy installation and maintenance**

The footprint of these devices has been considerably reduced and there is no need to leave space at the side or back (except for the models up to K40) of the equipment since the electronics and power components are fully accessible from the front. Fully automatic operation ensures ease of use and facilitates installation and startup, thus avoiding installation and configuration errors which could lead to failures or reduced plant productivity.

### Conformance

Sirio Central inverters with low frequency isolation transformers conform fully with European safety standards LVD and EMC and with Italian and international regulations regarding parallel connection to the public distribution network.

- Electromagnetic Compatibility Directive (89/336/EEC and subsequent amendments 92/31/EEC, 93/68/EEC and 93/97/EEC);
- CEI 11-20 Electrical energy production systems and uninterruptible power supplies connected to I and II class networks;
- CEI 11-20, V1 Electrical energy production systems and uninterruptible power supplies connected to I and II class networks;-V1
- Guide for connections to the ENEL DISTRIBUZIONE power grid, Ed. 2.2.

### Personalized solutions

TESCOM is able on request to supply Sirio Central inverters specific to the client's needs. Available options include the integrated isolation control and the pole/earth connection kit (positive or negative) that is required for some kinds of photovoltaic modules.

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### Kataloglar



