Solar Serisi Sirio Central Station

SOLAR POWER
SIRIO CENTRAL STATION

GENEL

How to increase the overall efficiency of a conversion system and cut installation costs. This objective can be achieved by using a Sirio Central Station (SCS) system with Sirio HVMT Central inverters connected to a common medium voltage transformer. The devices are installed in concrete stations to prolong their useful life, improve thermal insulation and to provide resistance to atmospheric agents and the most unfavourable environmental conditions.

An integral system for large plants Sirio Central Station is available in 500kW, 750kW and 1MW versions and is a complete, safe and highperforming ?Plug&Play? solution. The modular system, which uses inverters housed in separate stations, each with it own MV/LV transformer, enables the inverters to have a barycentric position within the photovoltaic field to optimize installation. The logic of having separate stations cuts production losses caused by failures and during ordinary and extraordinary maintenance operations. The stations are built in vibrated reinforced concrete, in accordance with the CEI.0-16 standards currently in force, with the Guide for Connections to the Enel Distribuzione Power Grid Ed. 1 December 2008 and with the Enel DG 2092 Construction Specifications Ed. 1 December 2008. The structures are particularly resistant to atmospheric agents since they are treated with special plastic and waterproofing coatings which protect against the formation of cracks and seepages. The external walls are coated with a quartz/rubber paint with a textured finish to provide optimal resistance to atmospheric agents, even in marine, mountain, industrial or very polluted environments. The normal operating conditions of the installed equipment are guaranteed by a natural ventilation system using air vents thus avoiding recourse to air conditioning systems. The whole structure is assembled entirely with electromechanical equipment in the factory in accordance with the CEI EN 61330 standard, and electrical equipment where applicable, ready to be placed on site for subsequent start-up.

Optional solutions
TESCOM can also offer pre-assembled solutions for:
- stations for utility providers and general protection with ENEL-approved medium voltage switchboard panels housing the incoming MV line devices and the measurement unit where the electricity distribution utility takes its readings;

- protection and interfacing stations housing all the MV, protection, measurement, interface and control panels;
- in addition to the versions in the catalog, intermediate configurations from 200kW are available.

Practical and complete

The SCS provides solutions that can be defined as ?All in One? since they reduce the normal design phases, cut transport and installation times and come already equipped with all that is needed for system start-up. The significantly lower costs, the excellent efficiency of the whole system (due to the inverters and transformers used) and the time saving in the startup phases make the Sirio Central Station an attractive choice for optimizing return on investment.

Kataloglar