



**Turkish
Electric
Power**

1000 kW Fixed-Axis PV Solar Power Plant



Introduction

TEP 1000 kWac PV Solar Power Plant equipment pre-engineered for ease of installation and scalability. The 1000 kWac PV Solar Power Plant has been optimized for easy integration on to electric utility grid.

Technical Description

The 1000 kWac PV Solar Power has designed with all components matched for high-performance in large-scale applications. The 1000 kWac PV Solar Power has a standardized 1700 m² layout and includes solar modules, string inverters, TEP Solar SCADA, earth ground, DC collection wiring and equipment, weather data collection sensors, assembly and reference installation documentation.

Solar inverter, included in the 1000 kWac PV Solar Power, that comes enabled grid-friendly features that are designed to maximize Solar Power Plant performance, including:

- MPPT
- Reactive power control through all operating conditions
- Low voltage, zero voltage and high voltage ride- through of grid disturbances
- Plant-level monitoring and controls including a TEP SCADA system, software tools, and diagnostics needed to increase system availability

Features and Benefits

The 1000 kWac PV Solar Power delivers benefits including:

- The system design has been integrated to maximize overall power output
- Scalability-plants can be grouped to support the size and scope of your project
- Flexibility-designed to fit a variety of solar module technologies
- Integration-grid-friendly features deliver performance similar to a conventional power plant
- TEP SCADA monitors multi-MW PV solar plant with 5kW sensitivity
- Smart Low Voltage (400Vac) AC collection with alarms

In addition, TEP has resources and experience to help customers meet their needs for cleaner and more reliable energy.

Flexible Options

TEP 1000 kWac PV Solar Power can be customized to meet your specific needs, including siting and layout adjustments and equipment specifications. Options include:

- Full-scope installation
- Designs for varying environmental conditions (cold/hot weather, high wind, rocky soil, seismic, etc.)

System Design Conditions

Design ambient temperature -20 °C to 50 °C

Array tilt Any (Deg)(esigned for given site)

Wind applicable Code(ASCE 7-05) 120 km/h

Snow load 115 kg/m²

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