

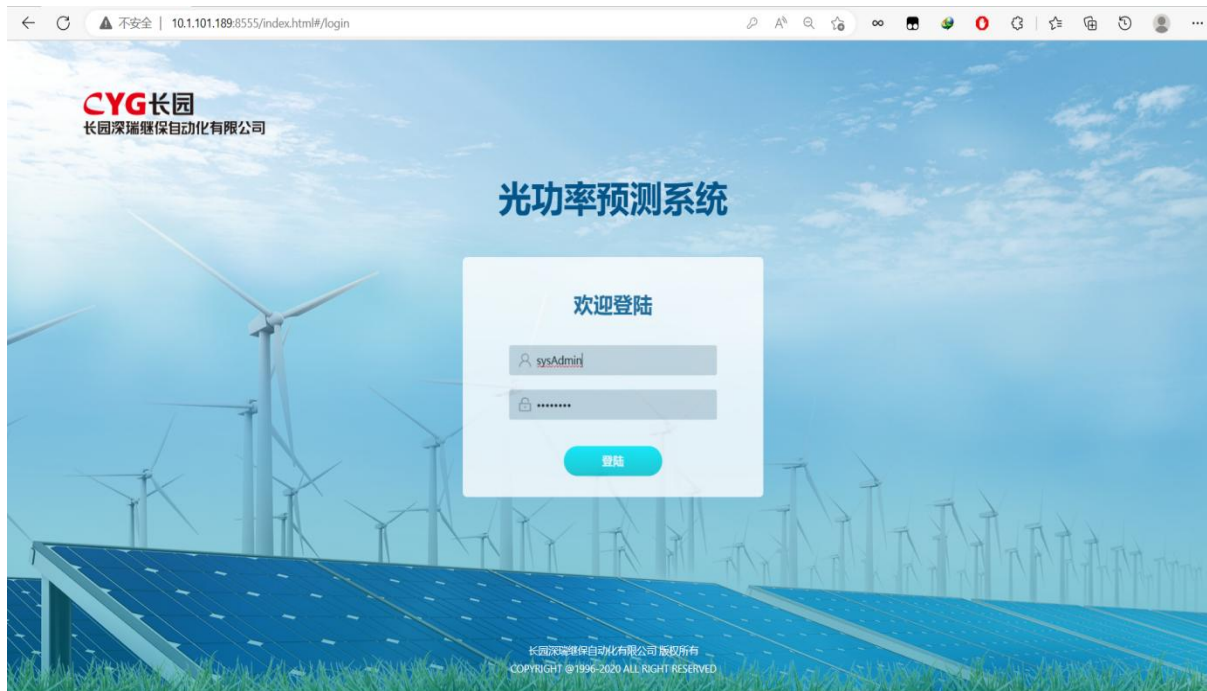


PRRS-7051



General Application

PRRS-7051S PV power forecast system builds the forecast model of PV array output power, forecasts the future output power and completes ultra-short-term (0~4h) and short-to-medium-term (0~240h) forecast with time resolution of 15min. The system provides display and analysis of curves such as actual power, forecast power and meteorological information. Output power forecast for PV power station is regarded as one of the most effective and economical ways to improve peak regulation capacity of power grid, enhance the acceptable capability of power grid and guarantee safe and economical operation of electrical power system.



❖ Main Diagram

Feature

Item	Parameter
Period	ultra-short-term (0~4h) and short-to-medium-term (0~240h) forecast with time resolution of 15min
Parts	data monitoring, power forecast, data reporting and WEB display
Forecast methods	local linear regression, cloud multi-model fusion, local cluster regression and local multi-model fusion

Functions

Item	Parameter
Login Management	User login User management
Real-Time Status Monitoring	Real-Time Power Curve Real-Time Meteorological Curve Unit Running Status
Power Curve Display	Current Short-Term Power Forecast Curve Current Ultra-Short-Term Power Forecast Curve Short-Term Forecast Query Per Time Ultra-Short-Term Forecast Query Per Time Short-to-Medium Term Analysis Display Ultra-Short-Term Analysis Display Continuous Forecast Curve Query
Meteorological Information Display	Irradiation Curve Temperature Curve Humidity Curve Air Pressure Curve Wind Speed Curve

Functions

Item	Parameter
Theoretical Power Information Display	Prototype Machine Information Display Theoretical Power Curve Display
Analysis Statistics	Running Alarm Information Medium-Term Forecast Indicator Short-term Forecast Indicator Ultra-Short-Term Forecast Indicator Real-Time Power-Related Indicator Real-Time Meteorological-Related Indicator Statistical Indicator of Station Running Parameters Data Reporting Statistics Historical Reporting Information
System Management	Forecast Configuration Management System Configuration Management
Operation & Maintenance Management	QR Code Data Operation and Maintenance Data Summary

Functions