

Todaair
Stability is Key

Brand Official Website

www.todaair.com



Visit Todaair Website

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Todaair

PRODUCT - Solar System CATALOGUE

www.todaair.com

COMPANY PROFILE

Stability is Key

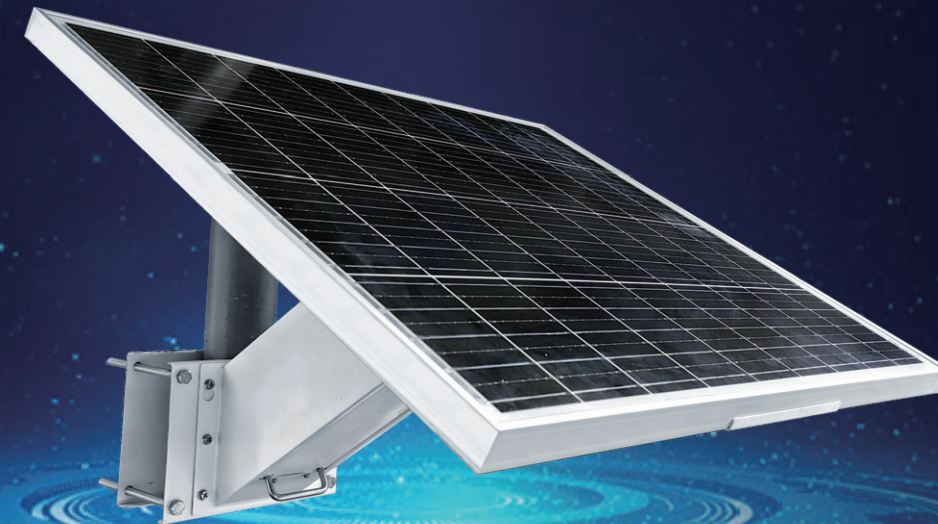
Security Surveillance | Networking | 4G/5G Router | Industrial Switch | Solar System | VoIP | Smart Home

Jiangmen Todaair Electronics Co., Ltd. is a technology innovative enterprise specializing in the research and development of network communication products and the provision of one-stop solutions.

Since its establishment in 2012, the company has created the brand "Todaair" and gradually developed five major product series, covering Wireless Network Communications, Security Monitoring, Digital Elevator Intercom, Outdoor Solar Wireless System, & SMB Network Systems.

Integrated Solar Power System

Long-life | Easy Installation | Simple Operation



01



MPPT Algorithm

It uses an advanced MPPT control algorithm to minimize max power point deviation, reducing both the loss rate and the duration.

02



Higher Solar Utilization

Boosts tracking efficiency and response speed, quickly identifying the maximum power point of PV arrays in any environment to harvest maximum solar energy. Compared with conventional PWM charging, it increase solar energy utilization by 10%-30%.

03



Ensures System Stability

Integrates current- limiting and power-limiting charging, along with automatic power reduction at high temperatures. This ensures stable system when PV modules exceed specifications and during high-temperature operation.

04



RS485 Port

Incorporates dedicated protection chips into the RS485 port for enhanced reliability, meeting diverse application requirements.

05



Charging & Protection

Features digitally controlled adaptive 3-stage charging, which extends battery life and optimizes system performance. Comprehensive electronic protection includes overcharge, over-discharge, and PV/battery reverse polarity safeguards.

06



Renewable Energy Controller

Widely used in RVs, telecom base stations, residential solar systems, and remote surveillance, this controller provides a reliable renewable energy management solution for diverse industries.

Solar Power System



TD-M100W50A

Battery capacity	• 50AH	Solar Panel Max Power	• 100W
Max Power	• 600W	Material	• Monocrystal Silicon
Max Output Current	• 10A	Rainy-day yattery life	• Supports 5W devices to operate for 2 days
Max Output Voltage	• 12V		

Wireless Bridge for Solar System



TD-56304T-RS *Support RS485 Interface

Transmission Distance	• <3 KM	Wireless Protocol	• IEEE802.11a/n
Mainboard Transmit Power	• 27dBm	Encryption Protoco	• WEP,WPA,WPA2,AES
Frequency Range	• 5.8GHz	Ethernet Interface	• 10/100Mbps*5(PoE Out*2)
Data Speed	• 300Mbps	Power Supply	• DC12~52V / PoE48~56V
Antenna Gain	• 16DB	Pairing Method	• WEB Configuration

Solar System Controller



Industrial Boosting PoE Switch



TD-MPPT-20A12-RS

Main Control Solution	• MPPT	Features	• Uses advanced MPPT control algorithm • Boosts solar energy utilization by 10%-30% • RS485 port meets diverse application needs • Adaptive 3-stage charging effectively extends battery life
Solar Panel Max Power	• 200W		
Max Output Current	• 12V		
Max Output Voltage	• 20A		

TD-SW615G-F-SOLAR

Exchange Capacity	• 12Gbps	PoE Scheme	• PoE 802.3af/at (PSE)
Power Supply	• 65W	Single-Port PoE Output	• Up to 30W
Power Input	• DC 48-52V • 2pin DC 12-52V	Ethernet Interface	• SFP 1000Mbps *1 • Uplink Ports 1000Mbps *1 • POE Ports 1000Mbps *4

EMPOWER CONNECTIVITY - ANYWHERE, ANYTIME WITH TODAAIR SOLUTIONS

Application: Ideal for construction sites, oil fields, parking lots, and agricultural monitoring



Application Scenarios



Fish Pond Security System



Water Conservancy Security System



Forest Fire Security System