

DC Power Meter for Solar Energy Systems

This DC power meter is designed for solar energy systems, offering precise DC power measurement and management. It features multiple DC input channels and supports a voltage range of 0-80VDC.



ADDITIONAL IMAGES



Overview

High-Precision 24-Channel DC Power Meter

The DP-M24 is a high-performance acquisition module designed for real-time monitoring of 24 channels of DC voltage or current signals. Utilizing multi-channel 24-bit high-precision AD measurement chips and linear optocoupler isolation, it ensures reliable data collection with excellent stability and fast sampling speeds. This versatile device supports standard RS485 MODBUS-RTU communication, making it an ideal solution for fatigue equipment testing, production automation, and computer room monitoring.

Measurement Performance

Measurement Accuracy

0.2 %FS

Current Accuracy

0.5 %FS

Voltage Accuracy

Input Channels

24 channels

Acquisition Speed Options

200mS, 300mS, 400mS, 500mS, 800mS

Electrical Specifications

Rated Voltage Options

- 10V
- 60V
- 100V
- 300V
- 400V

Rated Current Options

- 20mA
- 100mA
- 1A
- 5A
- 10A

Auxiliary Power Supply

9V-30VDC or 9V-55VDC

Communication & Connectivity

Output Interface

RS485 (Modbus-RTU)

Supported Baud Rates

4800, 9600, 19200, 38400, 57600, 115200

Physical & Environmental

Mounting Type

35mm DIN rail • Screwed mounting

Isolation Withstand Voltage

2500 V

Operating Temperature

-20 to +70

Dimensions

217mm x 109mm x 37mm