PT2460

MPPT Solar Charge Controller



PT2460

12 / 24 V | 60 A

Customer _____

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Contents and Approval

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Approval		

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Revision History and Overview

Model	Revision	Date
PT2460	R2	2026-11-13

This specification covers the product functions and principal technical parameters of the PT2460 MPPT solar charge controller.

MPPT tracks the maximum power point to improve solar energy utilization in off-grid systems.

Supports lead-acid and lithium battery profiles with adjustable charging settings.

LCD operating display with historical data storage for the previous 300 days.

CAN / RV-C and RS485 Modbus communication.

Supports parallel charging by multiple controllers and remote battery-voltage compensation.

Natural cooling with input, load and temperature protection functions.

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Electrical Specifications

Parameter	PT2460
Rated charging current	60 A
Battery system voltage	12 / 24 V
Battery operating voltage range	8–32 V
Maximum PV power (12 V system)	800 W
Maximum PV power (24 V system)	1600 W
Maximum PV open-circuit voltage	150 V
Maximum PV input current	53 A
MPPT operating voltage range	Battery voltage + 2 V to 110 V
MPPT tracking efficiency	>99%
Charging conversion efficiency	85–98% (10–100% of rated power)
Rated load current	40 A
Static current consumption	≤50 mA
Grounding type	Common negative; negative grounding

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Environment and Communication

Parameter	PT2460
Operating ambient temperature	−35 to 65°C; no derating up to 45°C when well ventilated
Cooling method	Natural cooling
Ingress protection	IP32
Overall dimensions (L × W × H)	260 × 216 × 98.5 mm
Net weight	3.4 kg
CAN communication protocol	RV-C
RS485 communication	Two isolated ports; Modbus; parallel communication supported
RS485 port auxiliary power	5 V / 200 mA
Bluetooth communication	Built-in
Historical data storage	Previous 300 days
Display backlight	Activates on key press; switches off after 20 seconds without key activity

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Charging Control and Protection

Parameter	PT2460
Battery types	Sealed lead-acid, gel, flooded lead-acid, lithium and user-defined
Charging current setting	0–60 A; 0 disables charging
Parallel charging	Supported
Charging voltage drop compensation	Remote battery-voltage sensing supported
Lead-acid temperature compensation	Supported; requires an external battery temperature sensor
Load operating modes	Light control, light and timer control, manual (default), debugging and always on
Load pre-start	1–6 seconds; default 2 seconds
Protection functions	PV overvoltage, PV short circuit, nighttime reverse-current protection, input power limiting, device overtemperature, battery overtemperature (requires an external battery temperature sensor), load short circuit and overload, battery overvoltage and over-discharge protection