



MT Series

DC MPPT Solar Charge Controller

- ☐ Energy-saving mode with low self-consumption
- ☐ Utilizes SPWM technology to output high-quality pure sine wave AC power
- ☐ Features N-G grounding function compliant with electrical safety standards
- ☐ IP67 protection rating, suitable for outdoor use
- ☐ Supports dual battery power supply
- ☐ Max charging current up to 100A

ABOUT SRNE

- ☐ SRNE 15 years in PV industry, committed to independent R&D and production.
- ☐ Holds over 200 patents in energy storage, with unique industry-leading technologies.
- ☐ Chooses top-quality international components to deliver high-value products to customers.
- ☐ Upholds values of customer priority, proactivity, responsibility, and innovative breakthroughs.

MODEL		MT1250N05	
PV INPUT			
Max. Input Voltage		55Vdc	
MPPT Voltage Range		17～36V	
Max.PV Input Current		55A	
Max. Input Power		700W	
SECONDARY BATTERY			
Battery Type		SLD / GEL/Open cell/ LFP/USE	
Rated Battery Voltage		12Vdc	24Vdc
Rated Battery Voltage		9～16Vdc	18～32Vdc
Rated Charging Current		50A	
MPPT Charging Mode		Buck,Boost,Buck–Boost	
STARTER BATTERY / ALTERNATOR			
Battery Type		lead–acid	
Rated Battery Voltage		12/24V	
Max. Generator input voltage		32Vdc	
Max. generator input current		68A	
Max.Alterna tor Input Voltage	Conventional Alternator	13.2～16V/26.4～32Vdc	
	Euro 6 Standard Alternator	12～16V/24～32Vdc	
Recommended Alternator Output		700W	
Alternator Charging Mode		Buck,Boost,Buck–Boost	
PV Charging Mode for Starter Battery		PWM	
EFFICIENCY			
MPPT Tracking Efficiency		>99%	
Max. Charging Conversion Efficiency		95%	
BASIC			
Num. of parallels	1～16 units	No–load loss	<1.2W
Dimension	167*126*45mm	Humidity range	0～100%
Weight	1.7kg	Altitude	≤3000m
Protection Degree	IP67	Warranty	3 years
Temperature	–35℃～65℃	Communication	RS485、CAN、BLE
PROTECTION			

Over-charging protection, over-current protection, over-temperature protection, generator reverse connection protection, solar panel reverse connection protection, backup battery reverse connection protection, night-time anti-reverse charging protection.

