

SOLAR CONTROLLER **MEC12(24)20CY**

◆ DESCRIPTION:

A Multitask Electronics solar controller is a small box consisting of solid state circuitry that is placed between a solar panel and a battery. Its function is to regulate the amount of charge coming from the panel that flows into the deep cycle battery bank in order to avoid the batteries being overcharged. A controller can also provide a direct connection to appliances, while continuing to recharge the battery.

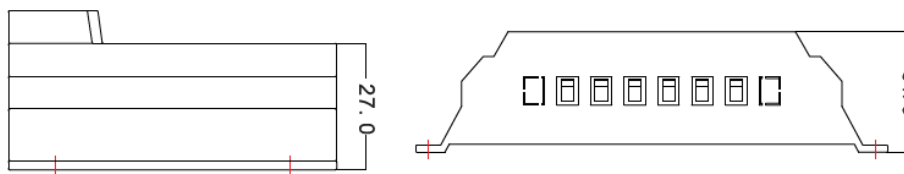
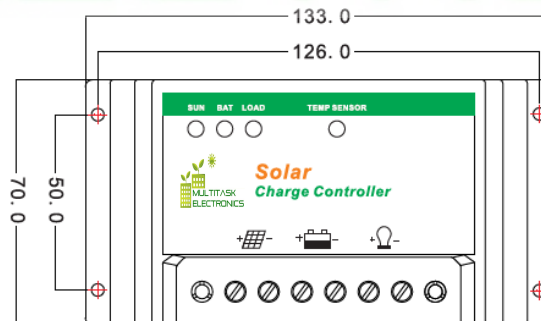


◆ FEATURES:

- **PWM Charging:** high charge efficiency and greatly extends the battery life.
- **MOSFET as Electronic Switch:** makes the controller a longer life.
- **Protection Functions:** makes the system be more secure and reliable, includes overcharge protection, deep discharge protection, reverse polarity protection of module/battery/load, short circuit protection of module/load, open circuit protection without battery, over-temperature protection, battery overvoltage shutdown.
- **Sufficient Design Margin:** maximum capacity exceeds 20% as the rated current/power, which makes the system more secure.
- **Intelligent Cooling Fans:** it is controlled by the real-time heat sink's temperature, which makes the fan a longer life and saving energy.

 **3 years**  **RoHS CE**

◆ APPEARANCE:



◆ **TECHNICAL PARAMETERS:**

	Model	MEC12(24)20CY
System Specifications	Rated Voltage	12V/24V
	Rated Current	20A
	Float Voltage	13.8V/27.6V
	Idle Draw	≤13mA
Input	Max Current On Charging	20A
	Max Open Voltage	30V/50V
Output	Max Load Current	20A
Protection Function	Over charge	14.6V±0.2V/29.2V±0.2V
	Over discharge Protection(V)	10.8V±0.2V/21.6V±0.2V
	Over discharge Resumption(V)	12.4V±0.2V/24.8V±0.2V
	Over-voltage Protection(V)	17V/34V
	Over-voltage	15V/30V
	Reverse Polarity	Yes
	Short Circuit	Yes
Other Data	Working Temperature	-20~70°C
	Storage Temperature	-35~80°C
	Temperature Compensation	-4mV/2V/°C
	Display	LED
	Operating Altitude(m)	≤5000m
	Product Size	133mm×70mm×34mm
	Packing Size	137mm×74mm×37mm
	Product Weight	160g
	Packing Weight	175g

◆ **INSTALLATION DIAGRAM:**

