



SOLAR CHARGING CONTROLLER

MPPT Controller



Product introduction:

MPPT series photovoltaic controller is a high-performance step-down solar power generation equipment, which adopts MPPT algorithm to make full use of solar photovoltaic energy. The PV input voltage range is wide, which can charge a variety of batteries, and the three-stage charging effectively improves the life of the battery. The modular design of the controller allows multiple units to be used in parallel, allowing customers to configure freely and flexibly.

Performance characteristics

- In order to increase reliability, multiple protections are used
- Input over voltage protection
- Input under voltage protection
- Output over voltage protection
- Output over current protection
- Stand-alone two-phase current unbalance protection
- Single-phase output over current hardware protection
- Display mode can be LED light or LCD screen

- Support multi-module parallel work
- Relevant parameters can be set freely
- A controller cabinet is optional, and control cabinets of different specifications can be selected according to the required charging power. The control cabinet comes standard with photovoltaic input circuit breakers, battery circuit breakers, fuses, etc.

Series	GSM192	GSM220	GSM240	GSM360	GSM384
Rated volt(VDC)	192	220	240	360	384
Float charging volt(VDC)	216	243	270	405	432
Bulk charging volt	227	256	284	426	454
Charging mode	Three stage: Constant current, constant voltage, floating				
Max.Input power(kWp)	12/24			42	45
Start voltage(VDC)	250	280	310	470	490
MPPT volt range(VDC)	230-450	260-450	290-450	450-800	480-800
Max.open circuit voltage (VDC)	480			850	
Max.efficiency	>98%				
MPPT efficiency	>99%				
Noise(dB)	<65				
Display	LCD+LED				
Communication	RS485 (Optional)				
Working temperature (°C)	-10~+50				
Humidity	≤95% (Non-condensing)				
Altitude(m)	≤5000m, above 1000m derating				
Protection level	IP20				
Protection function	PV array anti-reverse connection, Night anti-reverse charging, Battery over-charging, Over-temperature protection, etc				
Dimension(D*W*H) mm	10KW Wall-mount	470*360*100		Wall-mount	490*423*203
	10KW Ract-mount	403*482*87		Rack-mount	527*480*219
	20KW Wall-mount	517*400*181			
Weight (KG)	10KW:9 ; 20KW: 18			25	
Optional cabinet size (D*W*H) mm	4 Modules	550*550*900		4 Modules	700*550*1300
	6 Modules	600*600*1600			