



PC1800F Series

MPPT Solar

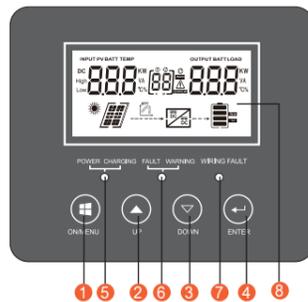
Características:

- 60A/80A MPPT Regulador de carga solar (Fan cooling)
- 12V/24V/48V (auto detección); 36V(setting)
- Eficiencia MPPT >99%, pico eficiencia conversión >98%
- Arquitectura de procesadores DSP que aseguran una gran velocidad y rendimiento.
- Carga en multi-etapas
- Protección: Cortocircuito en paneles, polaridad inversa en paneles y baterías sobrecarga, cortocircuito en la salida.
- Equalization charging function
- Función BTS

Introduction:

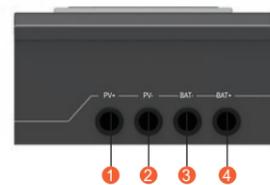
MPPT (Maximum Power Point Tracking) o bien seguidor de máxima potencia. Es un tipo de regulador de carga que ofrece un modo seguro y eficiente de carga de su batería. Éste prolongará la vida de la misma y asegurará un rendimiento máximo de su instalación solar. Podremos configurarlo a nuestro gusto y visualizar sus datos con su pantalla LCD.

LCD Display Information



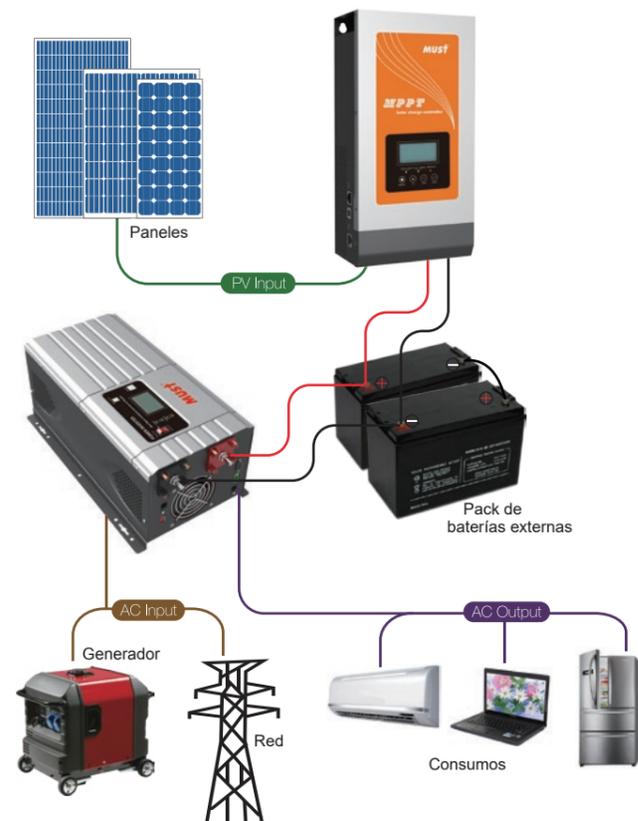
- 1.ON/MENU: Entrar o salir del menú de ajustes.
- 2.UP: Incrementar dato.
- 3.DOWN: Decrementar dato.
- 4.ENTER: Confirmar la selección en ajustes.
- 8.Display LCD.

| Indicador LED | | Mensajes | |
|-----------------------|-------|-----------|--|
| 5. POWER ON/ CHARGING | Verde | Encendido | El regulador está encendido |
| | | Parpadeo | El regulador está cargando. Bulk charge stage: parpadeo cada 0.5 segs. Estado de absorción: flashing every second Estado de ecualización: parpadeo cada 3 segs. Estado de flotación: parpadeo cada 5 segs. |
| 6. FAULT/ WARNING | Rojo | Encendido | Se ha producido un fallo. |
| | | Parpadeo | Situación de advertencia. |
| 7. WIRING FAULT | Rojo | Encendido | Polaridades de la batería no conectadas correctamente. |



- 1.PV+: Terminal positivo paneles
2. PV-: Terminal negativo paneles
3. BA-: Terminal negativo baterías
4. BA+: Terminal positivo baterías
5. COM: Terminal de comunicaciones RS485
- 6.BTS: Terminal BTS
7. USB

Solar System Connection



Specification

| MODEL | | PC18-6015F | | PC18-8015F | |
|--------------------------------|--------------------------------------|---|------------|-----------------------------------|---------|
| Nominal Battery System Voltage | | 12V/24V/48VDC (Auto detection); 36V(setting) | | | |
| CONTROLLER INPUT | Battery Voltage | 12V | 24V | 36V | 48V |
| | Maximum Solar Input Voltage | 100V | | | |
| | PV Array MPPT Voltage Range | 15~95V | 30~130V | 45~130V | 60~130V |
| | Max PV Input Power(12V) | 938W | | 1250W | |
| | Max PV Input Power(24V) | 1875W | | 2500W | |
| | Max PV Input Power(36V) | 2813W | | 3750W | |
| BATTERY | Max PV Input Power(48V) | 3750W | | 5000W | |
| | Charging Set points | Absorption Stage | | Float Stage | |
| | Flooded Battery | 14.2V/28.4V/42.6V/56.8V | | 13.7V/27.4V/41.1V/54.8V | |
| | AGM/Gel/LEAD battery (Default) | 14.4V/28.8V/43.2V/57.6V | | 13.7V/27.4V/41.1V/54.8V | |
| | Over-charging voltage | 15.5V/30.0V/45.0V/60.0V | | | |
| | Over-charging comeback voltage | 14.5V/29.5V/44.5V/59.0V | | | |
| | Battery defect voltage | 10.0V/17.0V/25.5V/34.0V | | | |
| | Temperature Compensation coefficient | -3mv°C /cell (25°C vef) | | | |
| PATTERY | Peak Conversion efficiency | 98% (MPPT Efficiency 99%) | | | |
| | Max Charging Current | 60 amps continuous @ 40°C ambient | | 80 amps continuous @ 40°C ambient | |
| GENERAL SPECIFICATION | Radiating mode | Fan cooling | | | |
| DISPLAY & PROTECTION | Protections | Solar high voltage disconnect Solar high voltage reconnect Battery high voltage disconnect Battery high voltage reconnect High temperature disconnect High temperature reconnect | | | |
| | MECHANICAL SPECIFICATIONS | Mounting | Wall mount | | |
| Machine Dimension(W*H* D) | | 152*100*294mm (per pcs) | | | |
| G.W(Kg) | | 3Kg/pcs | | | |
| Package Dimension(W*H* D) | | 612*308.2*235.6mm (5pcs/Carton) | | | |
| Gross Weight(Kg) | | 17.4Kg (per Carton) | | 19Kg (per Carton) | |
| OTHER | Environmental Rating | Indoor | | | |
| | Operation Temperature Range | -25~55°C | | | |
| | Ambient humidity | 0~90% relative humidity(non-condensing) | | | |
| | Altitude | ≤3000m | | | |
| | Loading(20GP/40GP/40HQ) | 3000pcs / 6000pcs / 7200pcs | | | |

* Product specifications are subject to change without further notice.

Lateral regulador



Plano trasero

