

MPPT Solar Charge Controller
WirC1800F Series (60/80/100A)



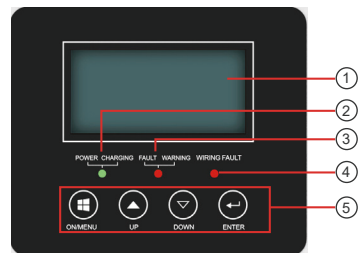
Back panel printing description

- LCD display , easy to operate on LCD screen
- Multi stage charging (3-stage charging , parallel charging and equalized charging function)
- BTS - Battery remote temperature sensor terminal
- Enable to charge Li-thium, Gel , lead-acid battery
- With RS485 & USB communication port
- Protection: PV array short circuit, PV reverse polarity, Battery reverse polarity, Over charging, Output short circuit

Introduction

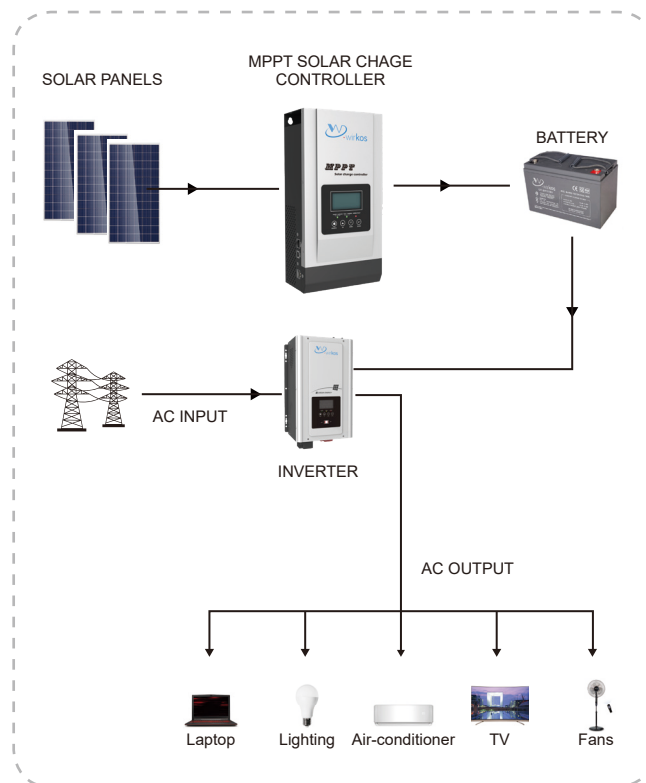
MPPT (Maximum Power Point Tracking) Solar Charge Controller offer an efficient, safe, multi-stage recharging process that prolongs battery life and assures peak performance from a solar array. Each Charge Controller allows customized battery recharging.

Back panel printing description



1. LCD display
2. Power ON/Charging indicator
3. Fault and warning indicator
4. Wiring fault indicator
5. Operation button
6. PV connectors
7. Battery connectors
8. Wiring box cover
9. Battery temperature sensor terminal
10. RS485 communication port
11. USB

Solar system connection



Specification

MODEL		WirC18-6015F	WirC18-8015F	WirC18-10015F
Nominal Battery System Voltage		12V / 24V / 48VDC (Auto detection); 36V (Setting)		
CONTROLLER INPUT	Battery Voltage	12V	24V	36V / 48V
	Maximum Solar Input Voltage	100V	145V	
	PV Array MPPT Voltage Range	15~95V	30~130V	45~130V / 60~130V
	Maximum Input Power	12 Volt-940W 24 Volt-1880W 36 Volt-2820W 48 Volt-3760W	12 Volt-1250W 24 Volt-2500W 36 Volt-3750W 48 Volt-5000W	12 Volt-1560W 24 Volt-3120W 36 Volt-4680W 48 Volt-6250W
BATTERY	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 (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 Conefficient	-5mv / °C / cell (25°C vef)		
	Peak Conversion Efficiency	98% (MPPT Efficiency 99%)		
	Maximum Battery Current	60Amps	80Amps	100Amps
	Max Charging Current	60amps continuous @ 40°C ambient	80amps continuous @ 40°C ambient	100amps 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)(mm)	152*85*294 (per pcs)		
	G.W (kg)	3kg/pcs		
	Package Dimension (W*H*D)(mm)	625*366*232 (4pcs / Carton)		
	Gross Weight (kg)	14kg		
OTHER	Environmental Rating	Indoor		
	Operation Temperature Range	-10~55°C		
	Ambient Humidity	0~90% relative humidity (non-condensing)		
	Altitude	≤3000m		

The technical specifications of this document are subject to change without any notice