

### WDM SERIES MPPT CHARGE CONTROLLER

- Auto identification and selection of system voltage
- High performance 32 bits CPU
- Wide PV input voltage range, convenient for system configuration
- MPPT charge mode, increase power usage efficiency of solar panels
- LCD display, intelligent batteries charging status display
- Running status display of solar panels, batteries and loads



#### Main Specification

Model	WD48-10	WD48-20	WD48-30	WD48-40	WD48-50	WD48-60
-------	---------	---------	---------	---------	---------	---------

#### INPUT

Max. PV Input Voltage	150V						
MPPT Voltage Range	12V	15V - 120V					
	24V	30V - 120V					
	48V	60V - 120V					
Max. PV Input Power	12V	140 W	280 W	420 W	560 W	700 W	840 W
	24V	280 W	560 W	840 W	1120 W	1400 W	1680 W
	48V	560 W	1120 W	1680 W	2240 W	2800 W	3360 W

#### BATTERY CHARGING

Battery System Voltage	12V/24V/48V auto recognition					
Max. Charging Current	10A	20A	30A	40A	50A	60A
Charging mode	Maximum Power Point Tracking (MPPT)					
Charging method	Three stages: Constant Current (MPPT); Constant Voltage; Floating Charge					
Max. Charging Efficiency	99%					
Battery Types Supported	Lead Acid Battery, Gel Battery, Flooded Battery, Lithium Battery					

#### PROTECTION

Overload Protection	1.5 times rated current 3s overload protection action, automatic recovery in 1 minute
Output Short Circuit Protection	Hardware protection fuses, automatic recovery in 10 minute
Over Temperature Protection	Charging or discharging stopped when controller temperature over 75°C, Charging or discharging recovery when temperature back to 55°C

#### OTHERS

Cooling Method	Intelligent Control Cooling Fan		
Communication Method	RS485	Remote Control	Optional
Operating Ambient Temperature	-15°C - 50°C	Own Consumption	< 20mA
Storage Temperature	-20°C - 60°C	Protection Grade	IP20
Dimensions	185x135x65mm	240x143x74mm	
Net Weight	1.15 kgs	1.80 kgs	
Packing Information	380x250x520mm,11.0kgs,8pcs	420x310x 270mm,8.0kgs/4pcs	

**Main Specification**

Model	WD48-80	WD48-100	WD96-50	WD96-100	WD192-50	WD216-50
-------	---------	----------	---------	----------	----------	----------

**INPUT**

Max. PV Input Voltage	150V	300V	450V
-----------------------	------	------	------

MPPT Voltage Range	48V	60V - 120V	
	96V	96V - 240V	
	192V	192V - 360V	
	216V	216V - 360V	

Max. PV Input Power	48V	4480 W	5600 W		
	96V			5600 W	11200 W
	192V				11200 W
	216V				12600 W

**BATTERY CHARGING**

Battery System Voltage	12V/24V/48V auto	96V	192V	216V
------------------------	------------------	-----	------	------

Max. Charging Current	80A	100A	50A	100A	50A	50A
-----------------------	-----	------	-----	------	-----	-----

Charging mode	Maximum Power Point Tracking (MPPT)
---------------	-------------------------------------

Charging method	Three stages: Constant Current (MPPT); Constant Voltage; Floating Charge
-----------------	--------------------------------------------------------------------------

Max. Charging Efficiency	99%
--------------------------	-----

Battery Types Supported	Lead Acid Battery, Gel Battery, Flooded Battery, Lithium Battery
-------------------------	------------------------------------------------------------------

**PROTECTION**

Overload Protection	1.5 times rated current 3s overload protection action, automatic recovery in 1 minute
---------------------	---------------------------------------------------------------------------------------

Output Short Circuit Protection	Hardware protection fuses, automatic recovery in 10 minute
---------------------------------	------------------------------------------------------------

Over Temperature Protection	Charging or discharging stopped when controller temperature over 75°C, Charging or discharging recovery when temperature back to 55°C
-----------------------------	------------------------------------------------------------------------------------------------------------------------------------------

**OTHERS**

Cooling Method	Intelligent Control Cooling Fan
----------------	---------------------------------

Comunication Method	RS485	Remote Control	Optional
---------------------	-------	----------------	----------

Operating Ambient Temperature	-15°C - 50°C	Own Consumption	< 20mA
-------------------------------	--------------	-----------------	--------

Storage Temperature	-20°C - 60°C	Protection Grade	IP20
---------------------	--------------	------------------	------

Dimensions	280x180x100mm	315x250x108mm	400x300x162mm
------------	---------------	---------------	---------------

Net Weight	3.7kgs	4.5kgs	5.6kgs	10kgs	11kgs
------------	--------	--------	--------	-------	-------

Packing	490x350x350mm/4pcs	370x310x340mm/2pcs	460x380x210mm/1pc		
	16.0kgs/4 pcs	11kgs/2pcs	13kgs/2pcs	11kgs/1pc	12kgs/1pc

Warranty	2 years
----------	---------

**Main Specification**

<b>Model</b>	<b>RF240-50</b>	<b>RF384-50</b>	<b>RF192-100</b>	<b>RF216-100</b>	<b>RF240-100</b>	<b>RF384-100</b>
--------------	-----------------	-----------------	------------------	------------------	------------------	------------------

**INPUT**

<b>Max. PV Input Voltage</b>	<b>500V</b>	<b>800V</b>	<b>450V</b>	<b>500V</b>	<b>800V</b>
------------------------------	-------------	-------------	-------------	-------------	-------------

<b>MPPT Voltage Range</b>	192V	192V - 360V				
	216V	216V - 360V				
	240V	240V - 400V				
	384V	384V - 640V				

<b>Max. PV Input Power</b>	192V	22400 W				
	216V	25200 W				
	240V	14000 W				28000 W
	384V	22400 W				44800 W

**BATTERY CHARGING**

<b>Battery System Voltage</b>	<b>240V</b>	<b>384V</b>	<b>192V</b>	<b>216V</b>	<b>240V</b>	<b>384V</b>
-------------------------------	-------------	-------------	-------------	-------------	-------------	-------------

<b>Max. Charging Current</b>	<b>50A</b>	<b>50A</b>	<b>100A</b>	<b>100A</b>	<b>100A</b>	<b>100A</b>
------------------------------	------------	------------	-------------	-------------	-------------	-------------

**Charging mode** Maximum Power Point Tracking (MPPT)

**Charging method** Three stages: Constant Current (MPPT); Constant Voltage; Floating Charge

**Max. Charging Efficiency** 99%

**Battery Types Supported** Lead Acid Battery, Gel Battery, Flooded Battery, Lithium Battery

**PROTECTION**

**Overload Protection** 1.5 times rated current 3s overload protection action, automatic recovery in 1 minute

**Output Short Circuit Protection** Hardware protection fuses, automatic recovery in 10 minute

**Over Temperature Protection** Charging or discharging stopped when controller temperature over 75°C, Charging or discharging recovery when temperature back to 55°C

**OTHERS**

**Cooling Method** Intelligent Control Cooling Fan

<b>Comunication Method</b>	<b>RS485</b>	<b>Remote Control</b>	<b>Optional</b>
----------------------------	--------------	-----------------------	-----------------

<b>Operating Ambient Temperature</b>	<b>-15°C - 50°C</b>	<b>Own Consumption</b>	<b>&lt; 20mA</b>
--------------------------------------	---------------------	------------------------	------------------

<b>Storage Temperature</b>	<b>-20°C - 60°C</b>	<b>Protection Grade</b>	<b>IP20</b>
----------------------------	---------------------	-------------------------	-------------

<b>Dimensions</b>	<b>400x300x162mm</b>	<b>530x410x162mm</b>
-------------------	----------------------	----------------------

<b>Net Weight</b>	<b>10kgs</b>	<b>11kgs</b>	<b>14.5kgs</b>	<b>17.5kgs</b>
-------------------	--------------	--------------	----------------	----------------

<b>Packing</b>	460x380x210mm/1pc		600x490x210mm/ 1pc	
	11kgs/1pc	12kgs/1pc	16kgs/1pc	19kgs/1pc

**Warranty** 2 years