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Lumiax

Lumiax MPPT-DC Series MPPT Solar Charge Controller



Specifications

	Item	MPP T085 0-D CLi/ G (select/R/V)	MPPT0875-DCLi/G (select/R/V)	MPPT 1050- DCLi/ G (select/R/V)	MPP T155 0-D CLi/ G (select/R/V)
	System Voltage	12V			
	Max Charging Current	8A		10A	15A
	Max volt on Bat. Terminal	25V			
	Battery Type	Liquid, Gel, AGM and Lithium Programmable, default: Lithium			
	Li q	MPPT Charging Voltage	<14.5V@25°C		
		Boost Voltage	14.5V @25°C		
		Equalization Voltage	14.8V @25°C Liquid, AGM		

B a t t e r y P a r a m e t e r s	ui d, G e l a n d A G M	Float V oltage	13.7V @25°C
		Low Vo lt. Disc onnect	10.8~11.8V Programmable
		Recon nect V oltage	11.4~12.8V Programmable
		Overch arge Pr otect	15.5V
		Temp. Compe nsation	-4.17mV/K per cell (Boost, Equalization) -3.33mV/K per cell (Float)
	Li th iu m	Chargi ng Volt . target	10.0~17.0V(Programmable, default: 14.4V)
		Chargi ng Volt . recov ery	9.2~16.8V(Programmable, default: 14.0V)
		Low vo ltage di sconne ct	9.0~15.0V(Programmable, default: 10.8V)

	Low voltage reconnect	9.6~16.0V (Programmable, default: 11.8V)				
	0°C Charging protection	Yes, Slow, No(Programmable)				
Parameter	Max volt on PV terminal *1	35V	60V	45V		35V
	Max input power	100W~120W		120W~150W		180W~225W
	Dusk/Dawn detect volt.	3.0~8.0V Programmable				
	Day/Night delay time	0~30min Programmable				
	MPPT tracking range	Battery Voltage +1.0V ~Voc*0.9 *2				
Load	Output Power	1~50W	1~60W			1~80W
	Output Voltage	20 ~ 35V	20 ~ 55V	20~45V		20~35V
	Current setting range	0.15~3.0A Programmable				

d P a r a m e - te rs	Min current	100mA Dimming
	Current precision	±2%
	Dimming	0~100% Programmable
	Voltage of start dimming	11.8~12.5V(Gel,AGM and Liquid); 10.0~17.0V(Lithium)
	Dimming percentage	1~20% Programmable
S y st e m P	Max tracking efficiency	>99.9%
	Max charge conversion	96.5%
	Max LED driver efficiency	96%
	communication mode	Infrared/2.4G/IOT
	Induction mode	Infrared Human Sensing/Microwave Sensing
	Self consumption	6~25mA

a r a m e t e r s	Dimensions	63*8 5.8* 23.1 mm	81*85.8*23.1mm
	Net weight	230g	260g
	Ambient temperature	-35~+60°C	
	Ambient humidity	0~100%RH	
	Protection degree	IP67	
	Max Altitude	4000m	

1. This value represents the maximum voltage of the solar panel at the minimum operating ambient temperature.
2. Voc means the open circuit voltage of the solar panel.
3. Model name + "G", means 2.4G communication, R series have PIR function, Products with a -V tail have a microwave induction function.

	Item	MPPT1075-D CLi/G (select/R/V)	MPPT1575-D CLi/G (select/R/V)	MPPT2075-D CLi/G (select/R/V)
	System Voltage	12V/24V automatical recognition*3		
	Max Charging Current	10A	15A	20A
	Max volt on Bat. Terminal	35V		

Battery Parameters	Battery Type		Liquid, Gel, AGM and Lithium Programmable, default: Lithium
	Liquid, Gel and AGM	MPPT Charging Voltage	<14.5/29.0V@25°C
		Boost Voltage	14.5/29.0V @25°C
		Equalization Voltage	14.8/29.6V @25°C Liquid, AGM
		Float Voltage	13.7/27.4V @25°C
		Low Volt. Disconnect	10.8~11.8V/21.6~23.6V Programmable
		Reconnect Voltage	11.4~12.8V/22.8~25.6V Programmable
		Overcharge Protect	15.5/31.0V
		Temp. Compensation	-4.17mV/K per cell (Boost, Equalization) -3.33mV/K per cell (Float)
	Lithium	Charging voltage target	10.0~32.0V(Programmable, default: 14.4V)
		Charging voltage recovery	9.2~31.8V(Programmable, default: 14.0V)
		Low voltage disconnect	9.0~30.0V(Programmable, default: 10.8V)
		Low voltage reconnect	9.6~31.0V (Programmable, default: 11.8V)

		0°C Charging protection	Yes, Slow, No(Programmable)		
Panel Parameters	Max volt on PV terminal		60V*1	55V *1	
	Max input power		130W/260W	200W/400W	260W/520W
	Dusk/Dawn detect volt.		3.0~20.0V Programmable		
	Day/Night delay time		0~30min Programmable		
	MPPT tracking range		Battery Voltage +1.0V ~Voc*0.9 *2		
Load Parameters	Output Power		10~60W/20~120W	10~90W/20~180W	
	Output Voltage		15~60V/35~60V	20~55V/30~55V	
	Current setting range Programmable		0.15~4.0A	0.15~6.0A	
	Min current		100mA Dimming		
	Current precision		±2%		
	Dimming		0~100% Programmable		
	Voltage of start dimming		11.8~12.5V/23.6~25.0V(Gel,AGM and Liquid); 10.0~32.0V(Lithium)		
	Dimming percentage		1~20% Programmable		
	Max tracking efficiency		>99.9%		
	Max charge conversion		97.5%		
	Max LED driver efficiency		96.5%		
	communication mode		Infrared/2.4G/IOT		

System Parameters				
	Induction mode	Infrared Human Sensing/Microwave Sensing		
	Self consumption	6~25mA		
	Dimensions	113*88.5*24.3 mm	145*85.8*30m m	145*95.8*42.5 mm
	Net weight	370g	550g	700g
	Ambient temperature	-35~+60°C		
	Ambient humidity	0~100%RH		
	Protection degree	IP67		
	Max Altitude	4000m		

1. This value represents the maximum voltage of the solar panel at the minimum operating ambient temperature.
2. Voc means the open circuit voltage of the solar panel.
3. Around oblique line value separately on behalf of 12V and 24V system's value.
4. Model name + "G", means 2.4G communication, R series have PIR function, Products with a -V tail have a microwave induction function.

Product Usage Instructions

Description of Function:

The MPPT-DC series intelligent MPPT solar controller is programmable and designed for boost mode LED solar street light systems. It includes a constant current driver function, with a charging efficiency approximately 20% higher than traditional PWM controllers, reducing system costs.

Safety Instructions:

- Use the solar charge controller only in PV systems following the user manual and

module manufacturers' specifications.

- Avoid short-circuiting batteries and always connect a fuse directly to the battery to prevent short circuits.
- Avoid sparks, fire, or flames near batteries as they can produce flammable gases.
- Avoid touching or short-circuiting wires or terminals; use isolated tools, stand on dry ground, and keep hands dry.
- Keep children away from batteries and the charge controller.

Dimensions:

Controller Dimension: 23.1mm x 42.2mm x 60.2mm

Features:

- Max Power Point Tracking(MPPT) technology with tracking efficiency over 99.9%.
- Full digital technology for high charge conversion efficiency.
- Output constant current with adjustable settings.
- 5 stages time and dimming adjustment.
- Battery type selection: AGM, Liquid, GEL, and Lithium.

MPPT-DC series

**MPPT Solar charge controller with LED driver built-in (Constant Current, Boost)
12/24V, 8/10/15/20A**

Solar charge controller MPPT-DC series User Manual

Dear Clients,

Thanks for selecting the MPPT-DC series solar controller. Please take the time to read this user manual, this will help you to take advantage of controller's new features. This manual gives important recommendations for installing, programming, using and so on. Read it carefully in your own interest please.

Description of Function

MPPT-DC series intelligent MPPT solar controller is programmable and especially for boost mode LED solar street light system. It includes constant current driver function.

The charging efficiency is about 20% higher than the traditional PWM controller, which can drop the cost of the whole system.

- Innovative Max Power Point Tracking(MPPT) technology, tracking efficiency >99.9%
- Full digital technology, high charge conversion efficiency up to 97.5%, discharge conversion efficiency up to 96.5%. Can output constant current (output current can be set) 5 stages time and dimming can be adjusted
- Can read parameters and running status
- If battery voltage is low, it can be set to dimming Dimming start voltage and percentage can be set
- Day/Night threshold can adjust automatically
- AGM, Liquid, GEL and Lithium battery for selection
- 0°C Charging Protection(Lithium)
- When BMS power off because of LVD, it can activate the system automatically
- External temperature sensor, automatic temperature compensation(AGM, Liquid and GEL)
- Four stages charge way: MPPT, boost, equalization, float Remote Unit to configure, with LCD display
- IP67, Strong and durable aluminum case Full automatic electronic protect function

Safety Instruction and Waiver of Liability

Safety

1. The solar charge controller may only be used in PV systems in accordance with this user manual and the specs of other module manufacturers. No energy source other than solar gen. may be connected to the solar charge controller.
2. Batteries store a large amount of energy, never short circuit a bat. under all circumstances. We strongly recommend connecting a fuse directly to the battery to protect any short circuit at the bat wiring.
3. Batteries can produce flammable gases. Avoid making sparks, fire or any naked flame. Make sure that the bat. room is ventilated.
4. Avoid touching or short circuiting wires or terminals. Be aware that the voltages on special terminals or wires can be as much as twice the battery voltage. Use isolated

tools, stand on dry ground, and keep your hands dry.

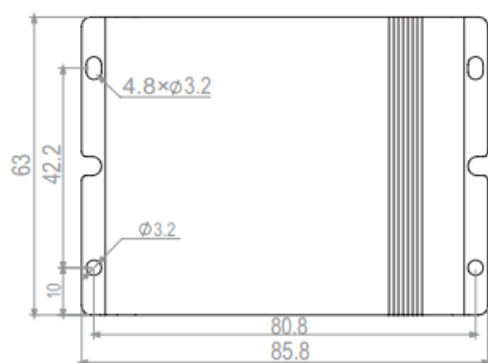
5. Keep children away from batteries and the charge controller.

Liability Exclusion

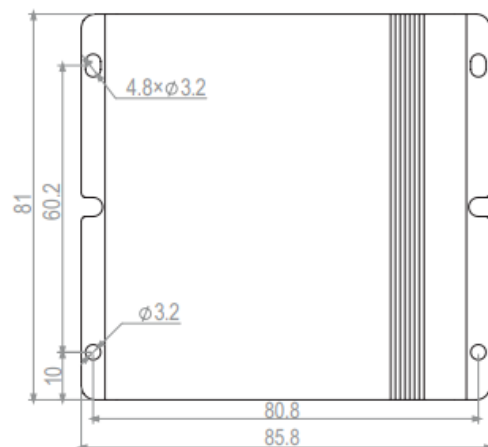
The manufacturer shall not be liable for damages, especially on the battery, caused by use other than as intended or as mentioned in this manual or if the recommendations of the battery manufacturer are neglected. The manufacturer shall not be liable if there has been service or repair carried out by any unauthorized person, unusual use, wrong installation, or bad system design.

Dimensions(Unit:mm)

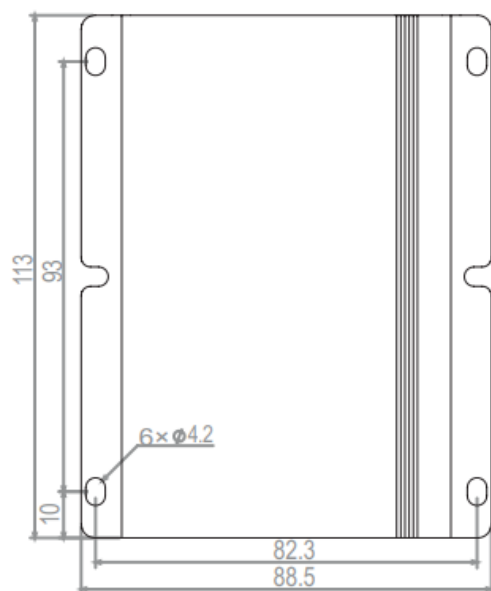
Controller dimension



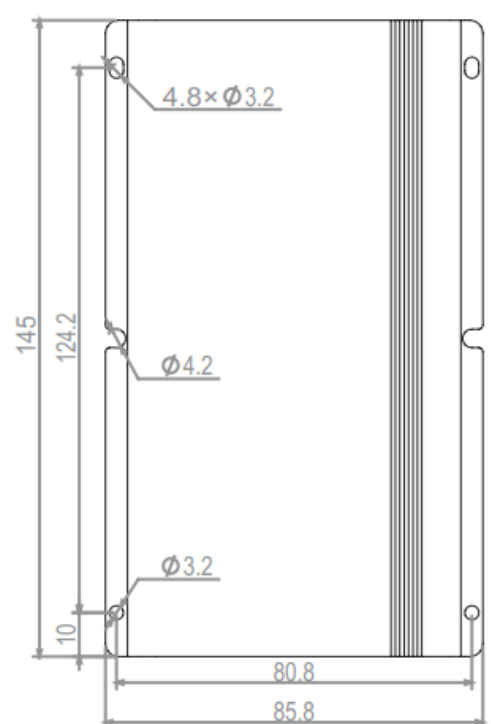
MPPT0850-DCLi



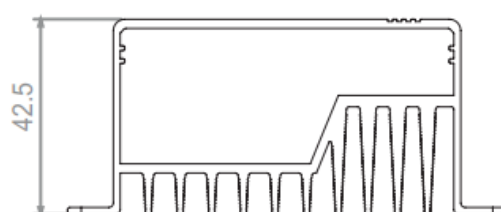
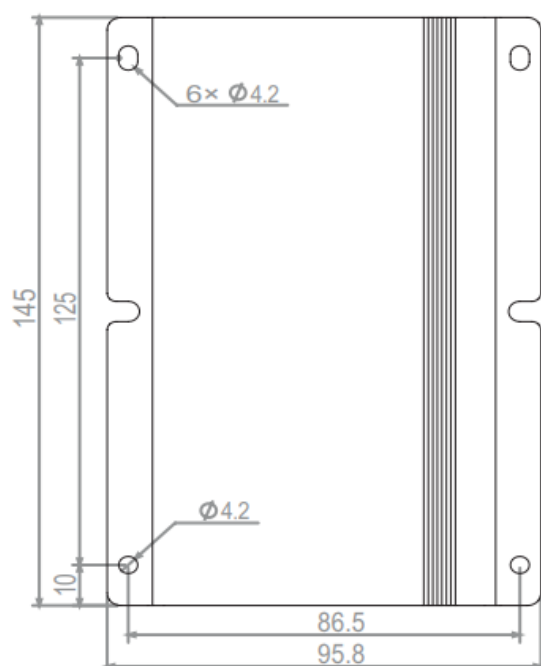
MPPT0875/1050/1550-DCLi



MPPT1075-DCLi

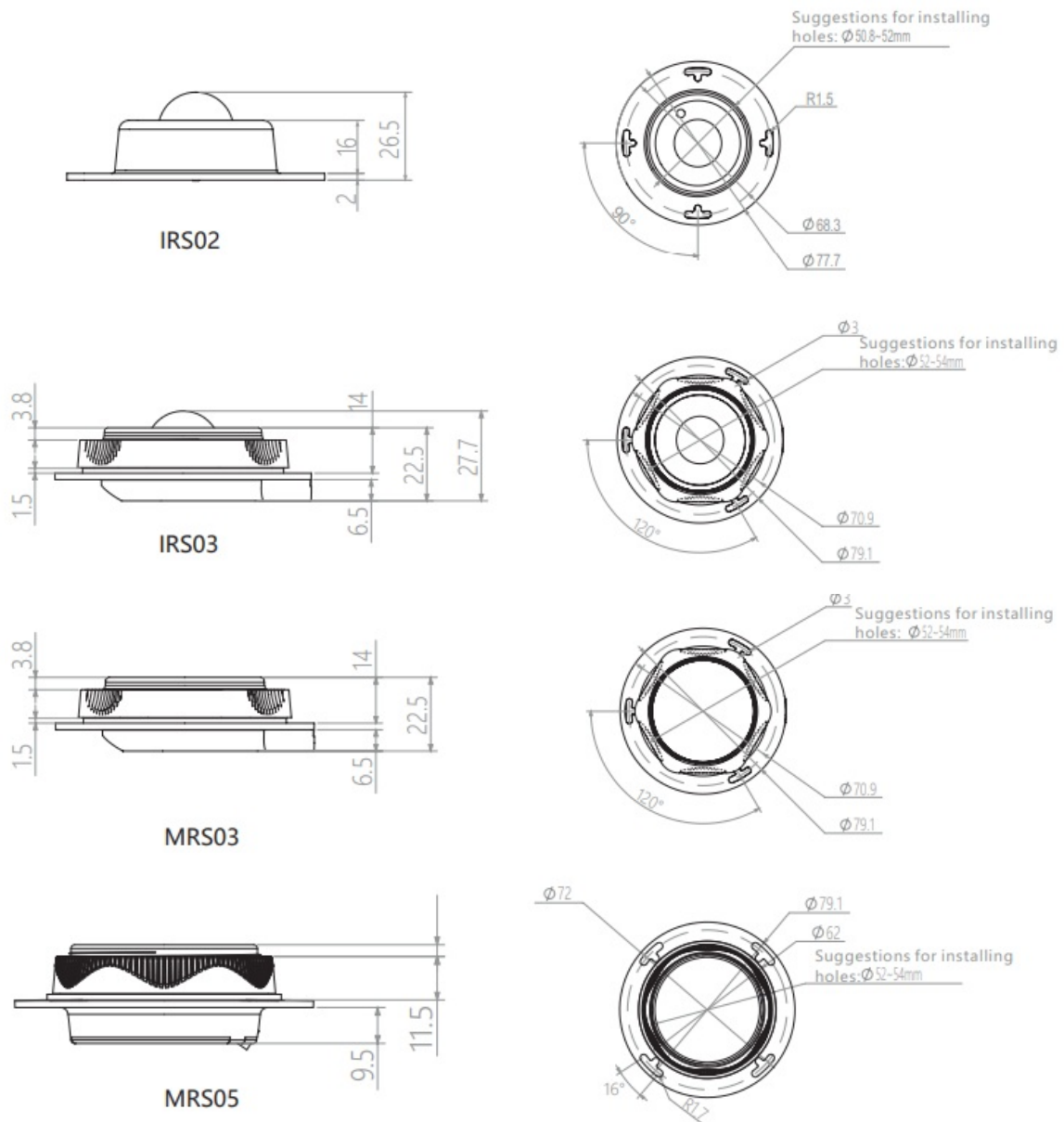


MPPT1575-DCLi



MPPT2075-DCLi

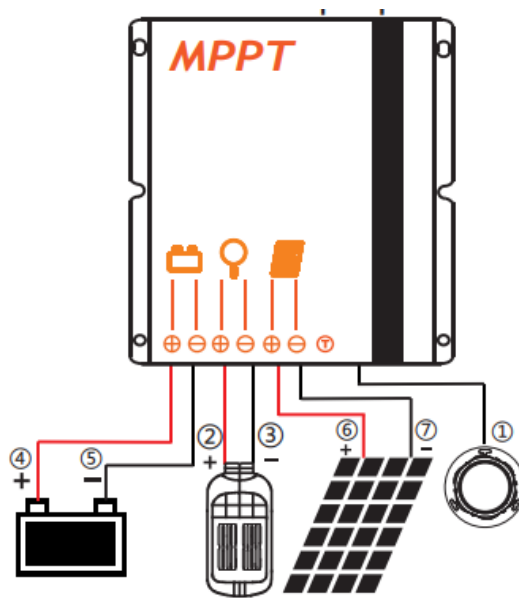
Sensor dimension(Unit:mm)Sensor lines length 400mm Infrared sensor head



MRS05 is currently only compatible with MPPT-DCLiGV series products.

Installation

The following diagrams provide an overview of the connections and the proper order



Hot plugging is prohibited! Please connect the inductive sensor to R/V series controller first!

1. Firstly, connect the sensing probe with the corresponding interface on the controller.
2. As the chart, connect the load with the corresponding brown(positive) and blue(negative) cables firstly, then seal them with tape.
3. Connect battery with the corresponding red(positive) and black(negative) cables. Load will be on after 5s.
4. Connect panel with the corresponding red(positive) and black/green(negative) cables, the load will be off after 5s, and the controller begins charging.
5. Refer to 9.1 LED indications and Faults & Alarms to confirm the LED display status.
 - Make sure the wire length between battery and controller is as short as possible.
 - Recommended minimum wire size:
 - 8/10A: 2.5 mm²; 15/20A: 4 mm².

Transportation mode(Lithium)

The controller is generally integrated with the lithium battery in the lithium battery pack for transport, if the controller works normal during transport, it will waste of energy and increase the transport risk. If the controller is set to transport mode, the load has no output, then the power consumption is reduced by about 60%, to avoid lithium battery voltage too low.

Open circuit protection

If the controller is only connected with the battery, but not connected with solar and load, the controller will enter transportation mode after 5 minutes.

Press the “Test” key in transport mode

- Press the “Back” and “Backlight” key at the same time more than 3s, the remote controller will work in transport mode.
- Press the “Test” key in the transport mode, the remote controller displays “Transport OK” and will beep a long sound, the controller enters into transport mode.

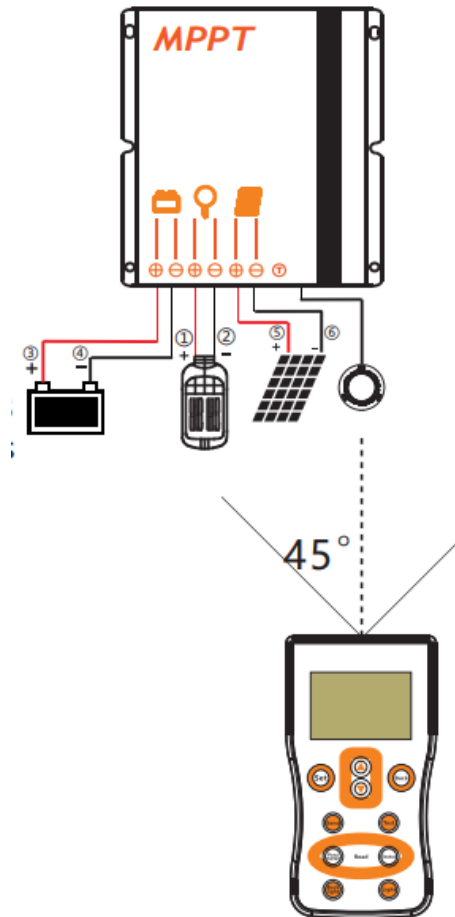
If the controller enters transport mode, the red LED will slow flash(0.2s on/5s off) the green and yellow led will be off and the remote control displays “Open CP”.

Exit the transportation mode

When the load is properly connected, press the test key or connect the solar more than 1s during daytime, the transport mode will terminate and the controller will work normally.

Remote controller, Default setting

Setting can be changed using the “S/SG-Unit” infrared remote programmer. For detailed instructions and settings, please see the S/SG-Unit programmer remote manual.



Remark

- S-Unit:
- Be sure to set only one controller at a time.
- SG-Unit:
 1. It's ability to set up multiple controllers at the same time.
 2. The indicators and load will be turned off for 1 second and on for 3 seconds after the controller receives the parameters successfully (according to the actual current), and then return to normal status.

Test function

Press the “Test” key of S/SG-Unit, the controller will turn on load for 10s. During daytime, the testing function can help users to verify correct installation or for system trouble shooting. 10s later the load will automatically turn off.

Read the running status

Press the “Status” key of the S/SG-Unit to read the running status of the controller.

Num	Name	Name describe	Unit
1	Status Batt V Load I Load d V PV V PV I Energy OD Times FC Times mes Day1-H V Day1-LV Day ay2-HV Day 2-LV Day3-H V Day3-LV	Charge Battery voltage Load current Load voltage PV voltage PV current Total generating capacity Over discharge times Fully charge times A day ago highest voltage A day ago lowest voltage Two days ago highest voltage Two days ago lowest voltage Three days ago highest voltage Three days ago lowest voltage	V A V V A AH Times Times s V V V V V V
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

Read the parameters

Press the “Parameter” key of the S/SG-Unit to read the setting parameters of the controller.

Num	Name	MPPT-DC
1	Time1	4H

2	Dim1	100%
3	Time2	0H
4	Dim2	100%
5	Time3	0H
6	Dim3	100%
7	Time4	0H
8	Dim4	0%
9	Time5	0H
10	Dim5	100%
11	D/N Thr	5.0V
12	D/N Dly	0min
13	Load I	0.3A
14	Dim Auto	Yes
15	Dim V	12.5V
16	Dim %	8%
17	Battery	Li
18	CVT	14.4V
19	CVR	14.0V
20	LVD	10.8V
21	LVR	11.8V
22	DelayOff	10s

23	Dim NP	10%
24	Password	0000

Password only applies to SG-Unit.

Starting up the controller

Self Test

As soon as the controller is connected to battery, it starts self test. Then the display changes to normal operation.

Battery Type

- The controller applies to Lithium, AGM, Liquid and Gel battery, the factory default setting is suitable for Lithium battery.
- When the controller is set to Lithium battery, the charging target voltage and charging recovery voltage can be set according to customer requirements.
- The controller adjusts itself automatically to 12V or 24V system voltage when it is set to Gel, Liquid or AGM battery. If the battery voltage on start-up is 0V-15.5V then the controller infers a 12V system.
- If the battery voltage is 20V-30V the controller infers a 24V system. If the battery voltage is not within the normal operating range (ca. 0 to 15.5V or ca. 20 to 30V) at start-up, please refer to 9.2 Faults & Alarms.

0°C Charging Protection

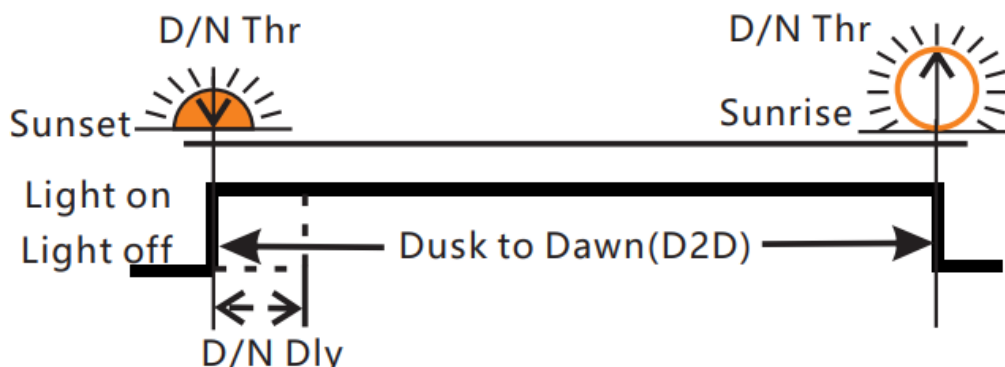
- “0°C Chg” can be set to “Yes”, “Slow” or “No”. When the controller detects that the ambient temperature is higher than 0°C, the charging function is normal. When the ambient temperature is low than 0°C, if the “0°C Chg” is set to “Yes”, the charging function is normal, else if the “0°C Chg” is set to “slow”, the max charging current is 20% of the rated current, else if the “0°C Chg” is set to “No”, the controller does not charge the battery.
- The user can select the appropriate charging method.

Streetlight Function

For controllers with infrared sensing function(R series), if work mode is set to “Five-stage Night Mode T0T mode”,

- “DelayOff” and “Dim NP” work in “Time3” and Time4”.
- “DelayOff” setting range: 10~150s.
- “Dim NP” setting range: 0~100%.

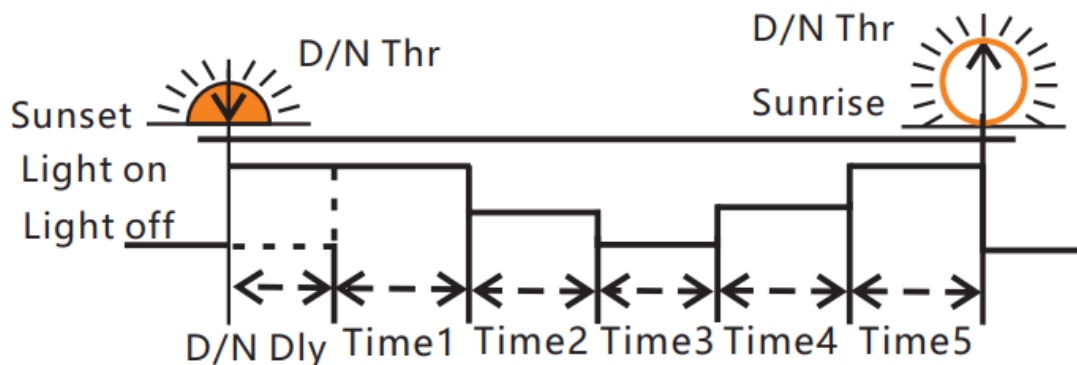
Dusk to Dawn (D2D, no induction function)



If “Time1” is set to “D2D”, the controller works in dusk to dawn mode.

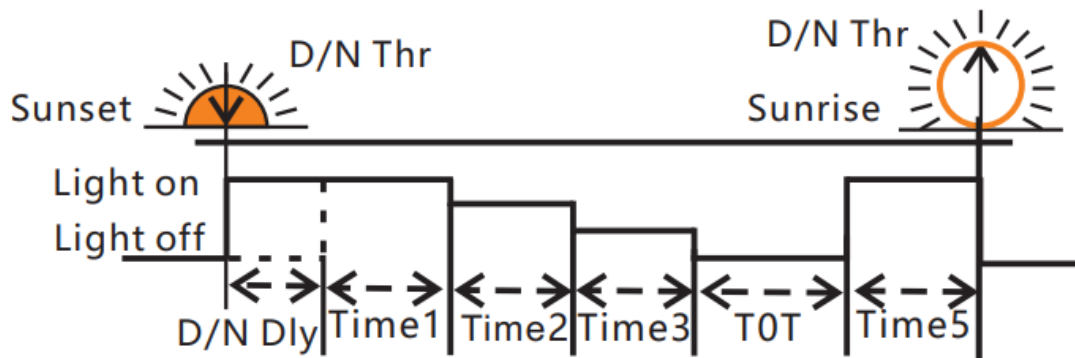
1. MPPT-DC controller is set to D2D mode, the corresponding dimming setting is still valid.
2. If “Time1” is set to D2D mode, “Time4” can not be set to T0T mode.

Five-stage Night Mode(Time3 Time4 can induction)



You can set the Time 1-5 and Dim 1-5 with S/SG-Unit.

T0T mode(Time3 T0T can induction)



If “Time4” is set to “T0T”, this mode is T0T mode.

- If “Time4” is set to T0T mode, “Time1” can not set to D2D mode.

Parameter setting example:

- Time1: 1.0H/100% Time2: 2.0H/80%
- Time3: 3.0H/60% Time4: T0T/40%
- Time5: 2.0H/100%
- DelayOff: 10s Dim NP: 10%

The controller works as follows

After the arrival of the evening the first time the load is lit for 1 hour (full power 100%), the second time the load is lit for 2 hours (power 80%), the third time load light for. 3 hours (when people is near the lamp then the load is 60% light, when people is away from the lamp the load is $60\% \times 10\%$ light), and then the controller according to the actual night time automatically calculate the length of the fourth paragraph (when people is near the lamp then the load is 40% light, when people is away from the lamp the load is $40\% \times 10\%$ light), the fifth time load light 2 hours (full power 100%).

LVD, LVR, Threshold, Dimming

Low Voltage Disconnect (LVD)

When the battery voltage drops below the LVD voltage, the controller will disconnect the load to prevent deep discharge of the battery. If this occurs, the battery should be well charged before resuming use.

	Gel, Liquid and AGM	Lithium
--	----------------------------	----------------

MPPT0850/0875/ 1050/1550-DCLi	10.8~11.8V	9.0V~15.0
MPPT1075/1575 /2075-DCLi	10.8~11.8/21.6~23.6V	9.0V~30.0V

Low Voltage Reconnect (LVR)

If the controller goes into low voltage disconnect, it will restore only when the battery being recharged to the recovery voltage.

	Gel, Liquid and AGM	Lithium
MPPT0850/0875/ 1050/1550-DCLi	11.4~12.8V	9.6V~16.0
MPPT1075/1575 /2075-DCLi	11.4~12.8/22.8~25.6V	9.6V~31.0V

Day/Night Threshold, Day/Night Delay

The controller recognizes day and night based on the solar array open circuit voltage. This day/night threshold can be modified according to local light conditions and the solar array used.

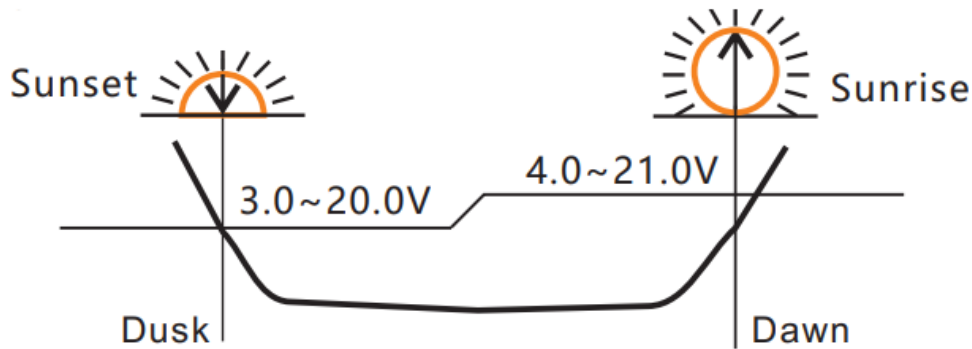
Day/Night threshold setting range:

MPPT0850/0875/1050/1550-DCLi	3.0~8.0V
MPPT1075/1575/2075-DCLi	3.0~20.0V

- In the evening, when the solar array open circuit voltage reaches the setting day/night

threshold, you can adjust the day/night delay time to make the load turn on a little later.

- Day/Night delay time setting range: 0~30min.



1. Day/Night threshold voltage should be set around 0.22 times of open circuit voltage.
2. Day/Night threshold voltage of load disconnect is 1V higher than the setting data, means the load will disconnect when the solar voltage at 4.0~9.0/4.0~21.0V.
3. The controller has an automatic day/night threshold adjustment function. If the lowest voltage of solar array is higher than the setting day/night threshold, the load has no output in first night, 24 hours later the controller can automatically adjust the day/night threshold to meet the requirements of lighting at night.

Auto Dimming

Auto Dimming mode

The “Dim Auto” item of S/SG-Unit is set to “Yes”, set “Dim V” and “Dim %” at the same time, press the “Send” key to set up the controller. when the battery voltage is lower than the voltage of “Dim V” , it starts to dimming automatically. Battery voltage reduces per 0.1/0.2V, load current decreased according to the set of “Dim %”, the minimum output current is 10% of the setting current.

- If the controller is set to “Dim” or “Auto Dim”, the minimum output current can be as low as 100mA.

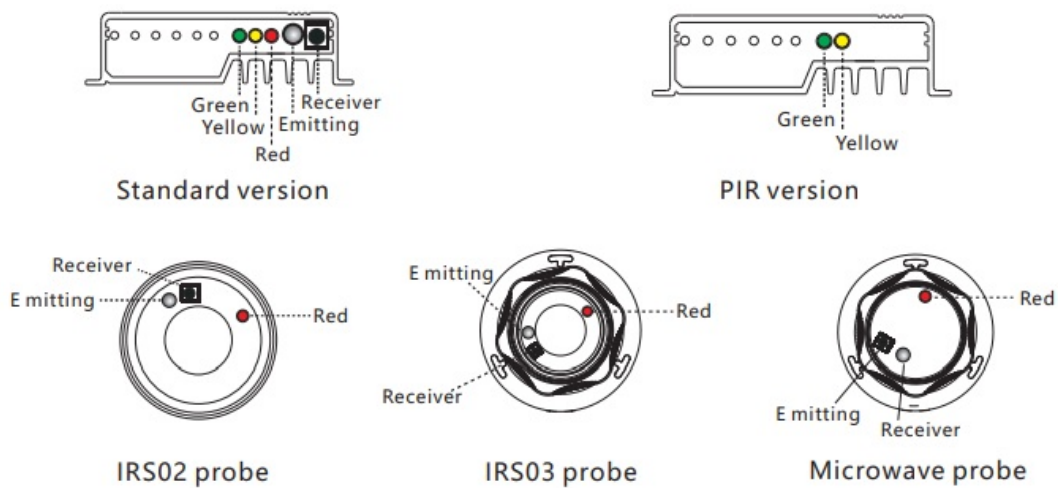
365mode Lithium

365 mode is based on the battery power (charge power, discharge power) energy control. If the battery charge more during the day, then discharge more at night. The controller can calculate the dimming ratio according to the charging power and the

remaining power of battery, so as to avoid the load shutdown due to the low battery voltage.

- When using the 365 mode, the system should be designed to meet the requirements of three rainy days.

LED indications and Faults & Alarm



LED Display Explanation

LED	Status	Function
Green LED	On	Solar panel is correctly connected, but not charged
	Fast flash(0.1/0.1s)	Charging
	Flash(0.5s/0.5s)	Equal or Boost Charging
	Slow flash(0.5/2s)	Float Charging Lithium constant voltage charge
	Off	Over voltage protection
	On	Battery is normal

Yellow LED	Slow flash(0.5/2s)	Battery voltage is low
	Fast flash(0.1/0.1s)	Low voltage protection
Red LED	Off	Work normal(Standard version)
	On	The output power is 0
	Super slow(0.2/5s)	Open circuit protection
	Flash(0.5s/0.5s)	Over temperature
	Fast flash(0.1/0.1s)	Short circuit or Over current protection
Red LED response	Slow flash(2.5s/ 2.5s)*1	Work normal(Induction probe)

- Detailed fault information can be read by S/SG-Unit remote controller.
- This data indicates the red indicator status of PIR sensor of infrared induction version.

Faults & Alarms

Fault	Status	Reason	Remedy
	Low volt. protection	Battery capacity is low	Load will be reconnected when battery is recharged

Loads are not powered	Overcurrent, short circuit protection	Loads are over current or short circuit	Switch off all loads, remove short circuit, load will be reconnected after 1 minute automatically
	Over temp. protection	Controller temp. is too high	Load reconnects after temp. reduces
High voltage at battery terminal	Over voltage protection	High battery voltage >15.5V/31.0V	Check if other sources overcharge the battery. If not, controller is damaged.
		Battery wires or battery fuse damaged, battery has high resistance.	Check battery wires, fuse and battery.
Can't recognize system voltage	All LED fast flashing	Battery voltage is not in right range	Charge or discharge, make battery voltage in the right range
Battery is empty after a short time	Low voltage protection	Battery has low capacity	Change battery
Battery can't be charged	Green LED is on	PV panel fault or reverse connection	Check panels and connection wires

- Lithium: Battery overvoltage $>(\text{CVT}+0.2\text{V})$
- Gel, Liquid and AGM: Battery overvoltage $>15.5/31.0\text{V}$

Safety Features

	Solar terminal	Battery terminal	Load terminal
Reverse polarity	Protected *2	Protected	Protected
Short circuit	Protected*1	Protected *2	Switches off immediately
Over current			Switches off with delay
Reverse Current	Protected		
Over voltage	Max *3	Max*4	
Under voltage			Switches off
Over temp.	The controller cuts off the load if the temperature reaches the set value.		

1. When the PV doesn't charge, the controller will not be damaged if a short-circuit just happened in the PV array. Warning: It is forbidden to short-circuit the PV array during charging .Otherwise, the controller may be damaged.
2. Battery must be protected by fuse, otherwise battery will be damaged.
3. Please refer to "12.Technical Data" to get the max voltage of PV panel.
4. Please refer to "12.Technical Data" to get the max voltage of battery.

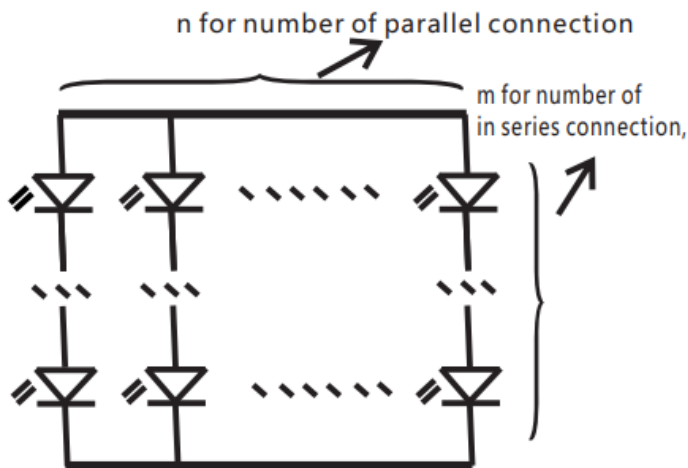
Warning: The combination of different error conditions may cause damage to the controller. Always remove the error before you continue connecting the controller.

Recommended connection of LED lights

Load

Following connect ways is for the LED lights

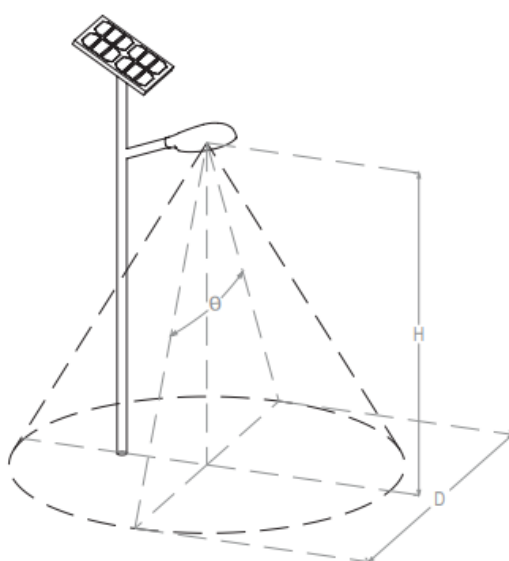
- (Vf: 2.9V~3.4V; I: 300mA, Power: 1W)



System Voltage	Output Voltage	Load current	LED chips connection
MPPT0850/1550-DCLi	20~35V	0.15~3.0A	M=7~10 N=1~10
MPPT1050-DCLi	20~45V		M=7~14 N=1~10
MPPT0875-DCLi	20~55V		M=7~18 N=1~10

MPPT1075-DCLi	15~60V	0.15~4.0A	M=5~18 N=1~20
MPPT1575/2075 -DCLi	20~55V	0.15~6.0A	M=7~18 N=1~20

Sensor



Type	Angle(θ)	High(H)	Width(D)
Infrared sensor(IR)	120°	6~8m	6~8m
Microwave sensor(WB)	120°	6~8m	7~12m

Induction Introduction :

- Human body infrared sensing sensor: A human body sensing sensor made using the pyroelectric effect. The infrared sensing range varies with temperature and lighting conditions.

Microwave Radar Sensing Sensor: A moving object detector made using the Doppler effect principle, with high radar sensing sensitivity and is not susceptible to

environmental, temperature, dust, and other impacts.

1. The microwave induction controller can only be equipped with a microwave induction probe and cannot use external sensing probe, otherwise, the infrared sensing probe may be damaged!!!
2. The sensor which installed in the plastic and glass lampshade will reduce the sensitivity.
3. Sensor range will change with temperature, light conditions and so on, subject to the actual measurement.
4. The distance between any inductive sensors should be greater than 3m.
5. Please ensure that there are no moving signals around the sensor, such as fan, DC motor, sewer pipe, air outlet, etc., the sensor may generate false trigger.

FAQs

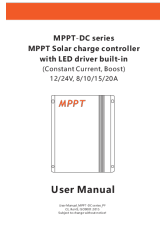
Q: Can the MPPT-DC series solar charge controller be used with any type of battery?

A: The controller supports AGM, Liquid, GEL, and Lithium batteries for selection.

Q: What is the warranty coverage for the MPPT-DC series solar charge controller?

A: Please refer to the warranty information provided by the manufacturer for details on warranty coverage.

Documents / Resources

	<p>Lumiax MPPT-DC Series MPPT Solar Charge Controller [pdf] User Manual</p> <p>MPPT-DC Series MPPT Solar Charge Controller, MPPT-DC Series, MPPT Solar Charge Controller, Solar Charge Controller, Charge Controller</p>
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References

- [User Manual](#)

■ Lumiax

💡 charge controller, Lumiax, MPPT Solar Charge Controller, MPPT-DC Series, MPPT-DC Series MPPT Solar Charge Controller, Solar Charge Controller

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