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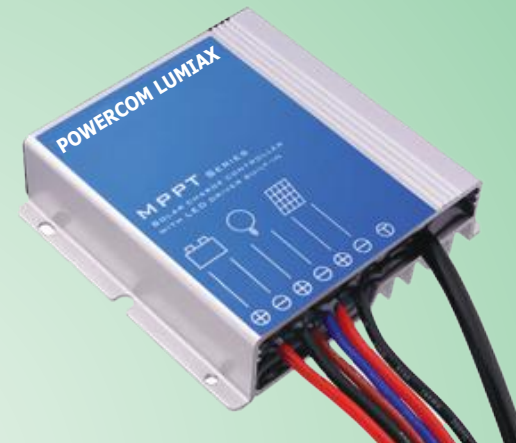


SMART DAWN TO DUSK STREET LIGHT CONTROLLER IN-BUILT CONSTANT POWER LED DRIVER

Description

POWERCOM LUMIAX Smart-DC Li series intelligent MPPT solar charge controller and in-built LED DRIVER is programmable and especially for boost mode LED solar street light system. It includes constant current driver function, which can make the cost of the whole system much lower. It comes with some outstanding features, such as:

- Can output constant current (output current can be set). Full IR remote controlled
- Accuracy: 50mA, Min current: 30mA
- 5 stages time and dimming can be adjusted, dimming 0~100%
- Can read parameters and running status
- If battery voltage is low, it can be set to dimming automatically
- Dimming start voltage and dimming percentage can be set
- Auto sleeping during transportation
- When BMS power off because of LVD, it can activate the system automatically
- Charging target voltage and charging recovery voltage can be set
- Day/Night threshold can adjust automatically
- Remote Unit to configure, with LCD display
- IP67, Strong and durable aluminum case
- Full automatic electronic protect function



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Product Applications

Controller is huge used in remote and rural road applications stand alone system; it is also used in highway.

Product Parameters

DATA	ITEM	PCM-MPPT50LI	PCM-MPPT100LI	PCM-MPPT80LI
Battery Parameters	Max Charging Current	6A	10A	8A
	System voltage	12V		
	MPPT Charging Voltage	<14.5V(25°C)		
	Boost voltage	14.5V(25°C)		
	Equal voltage	14.8V(25°C)		
	Float voltage	13.7V(25°C)		
	Temp. Compensation	-4.17mV/K per cell (Boost,Equal), -3.33mV/K per cell (Float)		
	Low voltage disconnect	10.8~11.8V(Programmable)		
	Low voltage reconnect	11.4~12.8V(Programmable)		
	Battery Type	Liquid, GEL(Programmable)		
Max volt on Bat. Terminal	25V			
Panel Parameters	Max volt on PV terminal	45V		60V
	Max input power	80W	130W	100W
	MPPT tracking range	(Vb+1.0V) ~Voc*0.9		
	Dusk/Dawn detect volt.	3.0~8.0V (Programmable)		
	Day/Night delay time	0~30min(Programmable)		
Load Parameters	Output Current	0.15~3.0A(Programmable)		
	Output Voltage	20 ~ 45V		20 ~ 58V
	Output power	1~50W		1~60W
	Min power	0.3W(Dimming)		
	Current precision	±2%		
	Dimming	0~100%(Programmable)		
	Auto dimming	Yes/No(Programmable)		
	Voltage of start dimming	11.8~12.5V(Programmable)		
	Dimming percentage	1~20%(Programmable)		
	System Parameters	Max tracking Efficiency	>99.9%	
Max charge conversion		96.0%		
Max LED driver efficiency		95.5%		
Self consumption		5mA		
Dimensions		85.8 x 63 x 23.1mm (customized)	85.8 x 81 x 23.1mm (customized)	
Weight		230g (customized)	280g (customized)	
Ambient temperature		-35~+60°C		
Ambient humidity		0~100%RH		
Protection degree		IP67		
Max Altitude		4000m		

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