Tracer-LPLI Series

Solar charge controller with built in LED Driver

Overview

Tracer-LPLI series MPPT solar charge controller combines solar charge controller and LED constant current driver into one unit. It has multiple load control modes which are ideal for various solar LED Lighting applications, especially when a dimming function is needed. This series adopts the advanced MPPT (Maximum Power Point Tracking) charging methods which will result up to 30% charging efficiency increase compared with the PWM charge controllers.

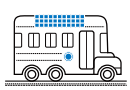
Features

- MPPT charging mode
- Support lead-acid and lithium-ion batteries
- Lithium battery self-activating function
- Advanced intelligent power derating function
- Multiple load control modes
- Automatic load test feature during installation
- Extensive electronic protection
- Infrared wireless communication design
- IP68 Ingress protection(1.5 meters, 72h)









Solar Car



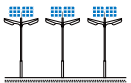
Solar Home



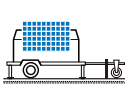
Solar Backpack



Solar Boat



Solar Street Light



Solar Power Generator

Technical Specifications

Item		Tracer1305LPLI	Tracer2606LPLI	Tracer3906LPLI	Tracer5206LPLI	Tracer2610LPLI	Tracer3910LPLI	Tracer5210LPLI
Nominal system voltage		12VDC	12/24VDC					
Battery input voltage range		8.5 ~ 16VDC	8.5 ~ 32VDC					
Rated charge current		10A/12V	10A	15A	20A	10A	15A	20A
Rated charge power		130W/12V	130W/12V; 260W/24V	200W/12V; 400W/24V	260W/12V; 520W/24V	130W/12V; 260W/24V	200W/12V; 400W/24V	260W/12V; 520W/24V
Max. PV open circuit voltage		50V (Min. Temp.) 45V(25°C)	60V(at minimum operating environment temperature) 46V(at 25°C environment temperature)			100V(at minimum operating environment temperature) 92V(at 25°C environment temperature)		
MPP Voltage range		(Battery voltage+2V) ~ 36V				(Battery voltage+2V) ~ 72V		
Max. output current		3.3A	3.3A	4.5A	6.6A	3.3A	4.5A	6.6A
Max. output power		100W	100W	130W	200W	100W	130W	200W
Output voltage range		(Max. battery voltage+2V) ~ 46V	(Max. battery voltage+2V) ~ 58V			(Max. battery voltage+2V) ~ 80V		
Load open circuit voltage		46V	58V			80V		
Load over-voltage protection		50V	63V			100V		
Maximum output efficiency		96%						
Output current control accuracy		≤2%						
Battery Type		Lead-acid battery: Sealed(default)/Gel/Flooded/User; Lithium battery:LiFePO4/Li-NiCoMn/User						
Lead-acid	Equalize Charging Voltage	Sealed:14.6V; Flooded:14.8V; User:9-17V (24Vsystem×2)						
	Boost Charging Voltage	Sealed:14.4V; Gel:14.2V; Flooded:14.6V; User:9-17V(24Vsystem×2)						
	Float Charging Voltage	Sealed/Gel/Flooded:13.8V; User:9-17V(24Vsystem×2)						
	Low Voltage Reconnect Voltage	Sealed/Gel/Flooded:12.6V; User:9-17V(24Vsystem×2)						
	Low Voltage Disconnect Voltage	Sealed/Gel/Flooded:11.1V; User:9-17V(24Vsystem×2)						
Lithium	Boost Charging Voltage	LiFePO4(4s):14.5V; Li-NiCoMn(3s):12.5V; User:9-17V(24Vsystem×2)						
	Low Voltage Reconnect Voltage	LiFePO4(4s):12.8V; Li-NiCoMn(3s):10.5V; User:9-17V(24Vsystem×2)						
	Low Voltage Disconnect Voltage	LiFePO4(4s):11.1V; Li-NiCoMn(3s):9.3V; User:9-17V(24Vsystem×2)						
Self-consumption		≤15mA/12V; ≤22mA/24V						
Communication		IR communication						
Work temperature range		-40°C ~ +60°C						
Enclosure		IP68(1.5m,72h)						
Dimension (L x W x H)		124×89×30mm		150×93.5×32.7mm	153×105×52.1mm	124×89×30mm	150×93.5×32.7mm	153×105×52.1mm
Mounting hole size		Φ3.5mm						
Mounting size (L x W)		88×76mm		120×83mm	120×94mm	88×76mm	120×83mm	120×94mm
Power cable		PV/BAT:14AWG(2.5mm^2) LOAD:18AWG(1.0mm^2)			PV/BAT:12AWG(4mm^2) LOAD:16AWG(1.5mm^2)	PV/BAT:14AWG(2.5mm^2) LOAD:18AWG(1.0mm^2)		PV/BAT:12AWG(4mm^2) LOAD:16AWG(1.5mm^2)
Net weight		0.52kg	0.52kg	0.71kg	1.18kg	0.52kg	0.71kg	1.18kg

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