

Tracer-LPLI Solar Controller & LED Driver

10-20A, 12/24VDC



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)

Specifications

Model	Tracer1305LPLI	Tracer2606LPLI	Tracer3906LPLI	Tracer5206LPLI	Tracer2610LPLI	Tracer3910LPLI	Tracer5210LPLI
Nominal system voltage	12VDC	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto	12/24VDC/Auto
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium (LiFePO ₄ /Li(NiCoMn)O ₂)/User						
Battery input voltage range	8.5 ~ 16VDC	8.5 ~ 32VDC	8.5 ~ 32VDC	8.5 ~ 32VDC	8.5 ~ 32VDC	8.5 ~ 32VDC	8.5 ~ 32VDC
Rated charge current	10A	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. 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
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			
Output voltage range	(Max. battery voltage+2V) ~ 46V	(Max. battery voltage+2V) ~ 58V	(Max. battery voltage+2V) ~ 58V	(Max. battery voltage+2V) ~ 58V	(Max. battery voltage+2V) ~ 58V	(Max. battery voltage+2V) ~ 58V	(Max. battery voltage+2V) ~ 58V
Output current control accuracy	≤2%						
Equalization voltage	Sealed:14.6V,Flooded:14.8V,User-defined:9-17V						
Boost voltage	Gel:14.2V,Sealed:14.4V,Flooded:14.6V,User-defined:9-17V						
Float voltage	Gel/Sealed/Flooded:13.8V,User-defined:9-17V						
Low voltage reconnect voltage	Gel/Sealed/Flooded:12.6V,User-defined:9-17V						
Low voltage disconnect voltage	Gel/Sealed/Flooded:11.1V,User-defined:9-17V						
Self-consumption	≤15mA/12V;≤22mA/24V						
Temperature compensation (for lead-acid battery)	-3mV/°C/2V (Default)						
Enclosure	IP68(1.5m,72h)						
Communication interface	IR						
Operating temperature range	-40°C ~ +60°C						
Dimensions(LxWxH)(mm)	124×89×30	124×89×30	150×93.5×32.7	153×105×52.1	124×89×30	150×93.5×32.7	153×105×52.1
Net weight	0.52kg	0.52kg	0.71kg	1.18kg	0.52kg	0.71kg	1.18kg

1. The controller can't automatically identify system voltage if lithium batteries were connected.
2. The voltage point is for 12V system, please *2 in 24V system.

Accessories (optional)



RC-10
IR Remote Controller