

## ***MPPT Solar charge controller with built-in LED Driver***



### **Tracer EPLI series**

TRACER-EPLI series combines solar charge controller and LED driver into one unit. It is ideal for solar LED Lighting requiring dimmer function. The control parameter can be programmed by Mobile APP and SPP-02 via infrared(IR) communication

#### **Models:**

Tracer1305EPLI 12V 10A

Tracer2606EPLI / Tracer2610EPLI 12/24V auto work 10A

Tracer3906EPLI / Tracer3910EPLI 12/24V auto work 15A

Tracer5206EPLI / Tracer5210EPLI 12/24V auto work 20A

#### **Features:**

- Advanced MPPT technology
- High tracking efficiency no less than 99.5%
- Peak conversion efficiency of 98%
- Ultra-fast tracking speed and guaranteed tracking efficiency
- Accurately recognizing and tracking MPP of multiple wave crest
- Digital precision constant current control

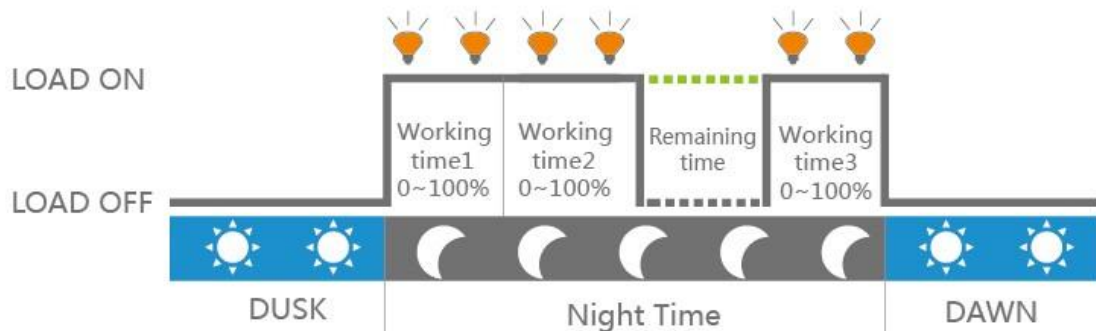
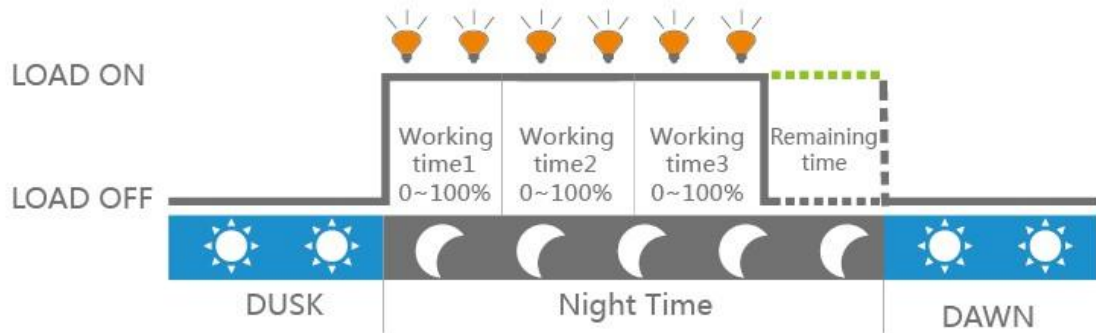
- Maximum output efficiency of 96%
- Output current adjustable
- Flexible dimming function(0-100%)
- Real-time energy statistics function
- Battery temperature compensation function
- Fully encapsulated PCB, IP68 protection
- Aluminum housing for better cooling
- Parameter setting via mobile APP(android only), RC-01 and SPP-02

### Electronic protections:

- PV reverse polarity protection
- Battery over voltage protection
- Battery overheating protection
- Battery over discharge protection
- Battery reverse polarity protection
- Load short circuit protection

### Load working mode:

- Manual Control
- Light ON/OFF (Default)
- Light ON + Timer
- Time Control





SPP-02



RC-01



Mobile APP



Mobile APP



\* Free download from website for APP.

### Optional accessories:

<p><b>SPP-02</b> Super parameter programmer</p>	<p><b>RC-01</b> Infrared Communication Remoter</p>	<p><b>IAM (Ir-Android-Micro)</b> For mobile APP</p>

## Technical specifications

Model	Tracer1305EPLI	Tracer2606EPLI	Tracer3906EPLI	Tracer5206EPLI
		Tracer2610EPLI	Tracer3910EPLI	Tracer5210EPLI
Nominal system voltage	12V	12/24V auto work		
Rated charge current	10A	10A	15A	20A
Rated charge power	130W	130W/12V 260W/24V	195W/12V 390W/24V	260W/12V 520W/24V
Max. PV open voltage	50V(Min.Temp.) 45V(25°C)	Tracer**06EPLI: 60V(at Min. operating environment temp.) 46V(at 25°C environment temp.) Tracer**10EPLI: 95V(at Min. operating environment temp.) 92V(at 25°C environment temp.)		
MPP Voltage range	Tracer**05/06EPLI: (Vbat +2V)~36V, Tracer**10EPLI:(Vbat +2V)~72V			
Max. output current	3.3A	3.3A	4.5A	6.6A
Max. output power	100W	100W	130W	200W
Equalize charging voltage*	Sealed: 14.6V, Flooded: 14.8V, User: 9~17V			
Boost charging voltage*	Gel: 14.2V, Sealed: 14.4V, Flooded: 14.6V, User: 9~17V			
Float charging voltage*	Gel /Sealed /Flooded: 13.8V, User: 9~17V			
Low voltage reconnect voltage*	Gel /Sealed /Flooded: 12.6V, User: 9~17V			
Low voltage disconnect voltage*	Gel /Sealed /Flooded: 11.1V, User: 9~17V			
Load open circuit voltage	46V	Tracer**06EPLI: (Max. battery voltage+2V)~58V Tracer**10EPLI: (Max. battery voltage+2V)~80V		
Maximum output efficiency	96%			
Output current control accuracy	≤30mA			
Self-consumption	≤15mA(12V);≤22mA(24V)			
Temp. compensation	-3mV/°C/2V			
Communication	IR communication			
Overall dimension	124x89 x30mm		150x93.5x32.7mm	153.3x105x52.1mm
Power cable	PV/BAT:14AWG(2.5mm <sup>2</sup> ) LOAD:18AWG(1.0mm <sup>2</sup> )		PV/BAT:12AWG(4mm <sup>2</sup> ) LOAD:16AWG(1.5mm <sup>2</sup> )	
Net weight	0.51kg	0.52kg	1.19kg	1.19kg
Enclosure	IP68(1.5m,72h)			
Working environment temperature	-40°C~+60°C			

\* Technical data for 12V system at 25°C, twice in 24V system.

\* Programmable voltage value by SPP-02 , RC-01 and APP.



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**ISO9001:2008 ISO14001:2004**