

Lithium Battery Solar Charge Controller with built-in LED Driver

Tracer LPLI series



The Tracer LPLI series lithium battery MPPT solar charge controller combines solar charge controller and LED constant current driver into one unit which is ideal for solar LED Lighting, especially when dimmer function is needed. The advanced Maximum Power Point Tracking charging methods enables the system charging and discharging management to obtain the most radical optimization. Increase the system flexibility, yet lower down the system cost.

Models:

| | | |
|---------------------------------|----------|-----|
| Tracer1305LPLI | 12V | 10A |
| Tracer2606LPLI / Tracer2610LPLI | 12/24VDC | 10A |
| Tracer3906LPLI / Tracer3910LPLI | 12/24VDC | 15A |
| Tracer5206LPLI / Tracer5210LPLI | 12/24VDC | 20A |

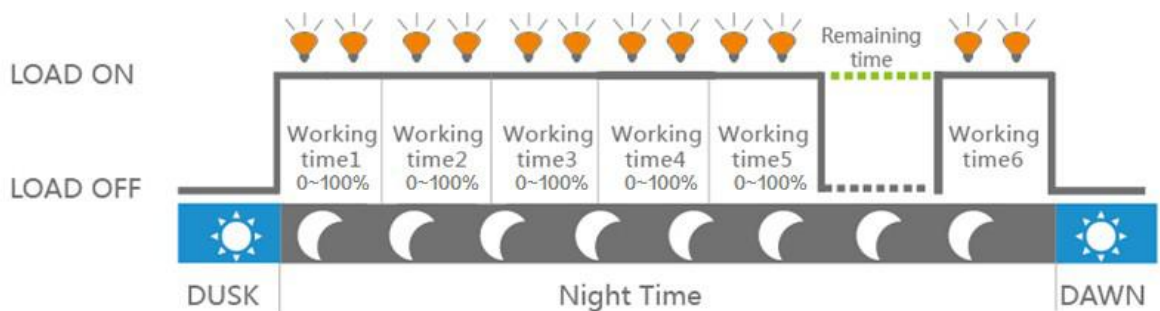
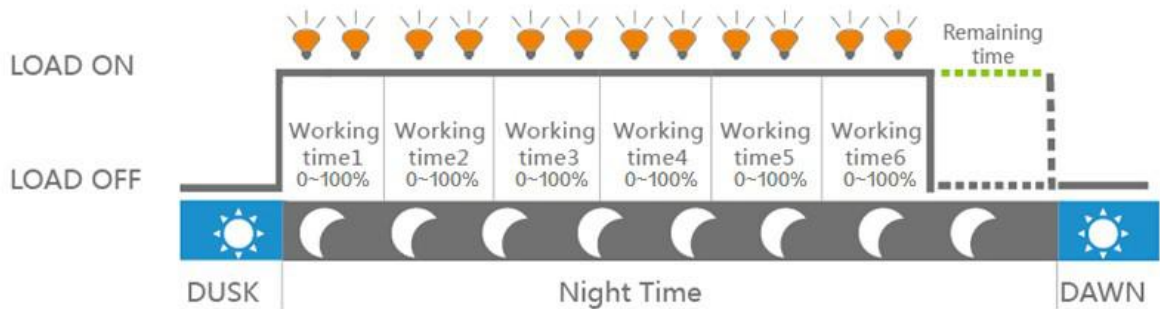
Features:

- Adopt high quality components of ST,IR and Infineon, make sure product using lifespan
- Wide working environment temperature(-40°C~60°C)
- Apply to lithium battery
- Lithium battery self-activating function
- Lithium battery low temperature protection function
- Load reduce power automatically
- Maximum conversion efficiency of 98%
- Advanced Maximum Power Point Tracking (MPPT) technology, with tracking efficiency no less than 99.5%
- Ultra-fast tracking speed and guaranteed tracking efficiency

- Accurately recognizing and tracking of multiple power points
- 12/24VDC automatically identifying system voltage or user-defined working voltage
- Digital precision constant current control and the control accuracy are less than $\pm 2\%$
- Maximum output efficiency of 96%
- PV and Load power limitation function
- The output current can be adjusted among the rated power and current range
- Monitoring and setting parameter via Mobile APP, PC Monitor setting software with IR function.
- Aluminum housing for better cooling
- Real-time energy statistics function
- IP68 waterproof degree
- Long lifespan design, five years warranty

Electronic protections:

- PV reverse polarity protection
- Battery over voltage protection
- Battery overheating protection
- Lithium battery Low Temperature(Default 0°C) protection
- Battery reverse polarity protection
- Battery over discharge protection
- Load short circuit protection



Load working mode:

- Manual Mode
- Real-time Control
- Light ON/OFF(Default)
- Intelligent Power Mode
- Light ON + Timer



Optional accessories:

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



| Model | Tracer1305LPLI | Tracer2606LPLI | Tracer3906LPLI | Tracer5206LPLI |
|---------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|
| | | Tracer2610LPLI | Tracer3910LPLI | Tracer5210LPLI |
| Nominal system voltage | 12V | 12/24VDC | | |
| Rated charge current | 10A | 10A | 15A | 20A |
| Rated charge power | 130W/12V | 130W/12V 260W/24V | 195W/12V 390W/24V | 260W/12V 520W/24V |
| Max. PV open circuit voltage | 50V(Min.Temp.) 45V(25°C) | Tracer****06LPLI: 60V at minimum operating environment temperature 46V at 25°C environment temperature Tracer****10LPLI: 95V at minimum operating environment temperature 92V at 25°C environment temperature | | |
| MPP Voltage range | (Batteryvoltage +2V)~36V | Tracer****06LPLI: (Battery voltage+2V)~36V Tracer****10LPLI: (Battery voltage+2V)~72V | | |
| Max. output current | 3.3A | 3.3A | 4.5A | 6.6A |
| Max. output power | 100W | 100W | 130W | 200W |
| Output voltage range | (Max. battery voltage+2V)~ 46V | Tracer****06LPLI: (Max. battery voltage+2V)~58V Tracer****10LPLI: (Max. battery voltage+2V)~80V | | |
| Load open circuit voltage | 46V | Tracer****06LPLI: 58V, Tracer****10LPLI: 80V | | |
| Load over voltage protection | 50V | Tracer****06LPLI: 63V, Tracer****10LPLI: 100V | | |
| Maximum output efficiency | 96% | | | |
| Output current control accuracy | ≤2% | | | |
| Battery Type | LiFePO4 / Li-NiCoMn / User | | | |
| Boost charging voltage* | LiFePO4:14.6V / Li-NiCoMn:12.51V / User:9-34V | | | |
| Float charging voltage* | LiFePO4:14.4V / Li-NiCoMn:12.39V / User:9-34V | | | |
| Low voltage reconnect voltage* | LiFePO4:12.0V / Li-NiCoMn:10.8V / User:9-34V | | | |
| Low voltage disconnect voltage* | LiFePO4:10.6V / Li-NiCoMn:9.3V / User:9-34V | | | |
| Self-consumption | ≤15mA/12V;≤22mA/24V | | | |
| Communication | IR communication | | | |
| Overall dimension | 124×89×30mm | | 150x93.5x32.7mm | 153.3x105x52.1mm |
| Net weight | 0.52kg | 0.52kg | 0.71kg | 1.18kg |
| Enclosure | IP68(1.5m,72h) | | | |
| Working environment temperature | -40°C~+60°C | | | |

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

KF SOLAR TECH GROUP CORP.

Add: 168 SOFTWARE AVENUE, YUHUATAI
DISCTRICK, NANJING, JIANGSU, CHINA

Tel: +86 25 66018007 / +86 13951630217

E-mail: info@kfsolar.com

Website: www.kfsolar.com

ISO9001:2008 ISO14001:2004