

# SPK-L2040-T3H



- ◆ This product is suitable for monitoring pole mounting scenarios, using bracket or hoop mounting, firmly fixed without loosening.
- ◆ This product meets the sunshine angle around the world, giving full play to the requirements of the best use of clean energy.
- ◆ Strong wind resistance. In bad weather environment, the equipment still maintains a smooth body, no loosening.
- ◆ The product lines are designed with waterproof wire header (IP67), giving full consideration to outdoor rain and snow, short circuit caused by equipment failure.
- ◆ This product adopts high-performance controller chip, with lithium battery activation and pre-charging function, real-time battery monitoring and protection, circuit conversion efficiency of more than 80%.
- ◆ This product comes with monitoring indicator, can realize solar panels, batteries, monitoring the work of real-time feedback, easy to view.
- ◆ This product supports RS485 communication with the equipment, real-time access to voltage, remaining power, current and other information.
- ◆ This product power generation unit adopts high efficiency monocrystalline silicon solar panels, the efficiency of the whole solar panel reaches more than 20%, with a service life of more than 20 years.
- ◆ The product energy storage unit adopts lithium battery, safe and reliable, deep cycle, cycle times of more than 2000 times, service life of more than 5 years.
- ◆ This product is made of galvanized steel, precision crafted, stable and reliable without shaking.
- ◆ This product supports the automatic opening of heating below 0 °C, low-temperature areas do not strike.
- ◆ Working temperature: discharge temperature (-20~55°C), charge temperature (-20°C~55°C).

| Accessory        |   | Specifications              |   |
|------------------|---|-----------------------------|---|
| Solar panel      | Solar cell                                  |                             | 166 ( MONO )  |
|                  | Power                                       |                             | 200W*2  |
|                  | Open circuit voltage                        |                             | 21.24V  |
|                  | Operating voltage                           |                             | 18V   |
|                  | Max. operating current                      |                             | 11.11A  |
|                  | Conversion efficiency                       |                             | 21.8%   |
|                  | Glass specification                         |                             | 3.2mm   |
|                  | Applicable environment                      |                             | -40°C ~ 85°C  |
|                  | Hail impact test                            |                             | 23m/s ,7.53g  |
| Battery          | Battery cell                                |                             | LifePo4   |
|                  | Rated capacity                              |                             | 100Ah ( 0.5C@ RT )                                      |
|                  | Rated Cell voltage                          |                             | 3.2V  |
|                  | Cell series and parallel connection methods |                             | 4S2P  |
|                  | Rated capacity                              |                             | 200Ah(2560Wh)   |
|                  | Rated voltage                               |                             | 12.8V   |
|                  | Battery internal resistance                 |                             | ≤50mΩ ( Test in AC 1Khz )                               |
|                  | Charging cut-off mode                       |                             | Constant current / constant voltage                     |
|                  | Charging voltage                            |                             | 14.6±0.05V  |
|                  | Discharge cut-off voltage                   |                             | 11±0.05V  |
|                  | Output voltage                              |                             | DC : 11~14.6V   |
|                  | Standard charge current                     |                             | 30A   |
|                  | Max. continuous discharge current           |                             | 10A   |
|                  | Max. instantaneous discharge current        |                             | 25A   |
|                  | Max. Output Power                           |                             | 80W   |
|                  | Weight                                      |                             | 20.8KG  |
|                  | Dimensions (L x W x H)                      |                             | 781×179×133 mm  |
|                  | Storage temperature                         |                             | With 40~50% capacity, less than 6 months (0°C ~ + 35°C) |
|                  | Operating temperature                       |                             | Charge : -20°C ~ 55°C ,<br>Discharge : -20°C ~ 55°C     |
|                  | Cycle life                                  |                             | ≥2000 cycles ( @0.5C 25°C )                             |
| Communication    |   | RS485 baud rate9600(MODBUS) |   |
| Heating function |   | Support                     |   |
| Controller       | Charge                                      | Charging mode               | DC charging   |
|                  |   | Max. charge current         | 30A   |
|                  |   | System voltage              | 12V   |
|                  |   | Over Voltage                | 30V   |

|               |   |                                 |   |
|---------------|---|---------------------------------|---|
|               | Discharge                                 | Max. discharge current          | 10A   |
|               |   | Battery Over discharge voltage  | 11V   |
|               |   | Battery Over charge voltage     | 14.6V   |
|               |   | Over-discharge Recovery voltage | 12.5V   |
|               | Self consumption                          | Sleep mode                      | ≤200uA  |
|               |   | Operating mode                  | ≤20mA   |
| Others        | Environmental reliability indicators      |                                 | -40°C~65°C Humidity less than 90%;<br>Waterproof: IP67    |
|               | Wind resistance Class                     |                                 | Class 10  |
|               | Cargo Transportation Condition Assessment |                                 | Dangerous goods, MSDS, UN38.3                             |
|               | Installation methods                      |                                 | Corner mount bracket or monitor pole hoop fixing          |
|               | Waterproof Rating                         |                                 | IP67  |
|               | Package size                              |                                 | Battery : 1101mm*227mm*188mm,<br>21.8Kg                   |
|               |   |                                 | Solar panels: 1233mmx878mmx38mm*2, 12.2Kg                 |
|               |   |                                 | Brackets: Cylinder, inside diameter 76mm*3mm*2300mm, 22Kg |
|               | Gross weight                              |                                 | 56Kg  |
| Net weight    |   | 52.3Kg                          |   |
| Certification | Safety                                    |                                 | CE  |
|               | Environment                               |                                 | ROSH 2.0  |

## DIMENSIONS

Size: mm

