**SPECIFICATIONS**

- Rated operational voltage: DC 4.0-75.0V
- Max discharging power: 35W
- Rated operational current: 0.03-5.00A
- Fan speed: hydraulic bearing intelligent temperature control fan, 8000±10% RPM
- Supports to test and trigger supported fast charging protocol: QC2.0 (5V, 9V, 12V, 20V), QC3.0, AFC9V, FCP
- Constant current accuracy: ±(1.5%±3 digits)
- Voltage accuracy: ±0.5%±5 digits
- Working temperature: -20°C – 40°C (-4°F – 104°F)
- Port: USB, micro USB, type-C and external wiring port.
- Safe protection: anti-reverse protection, over-voltage protection (OVP), overcurrent protection (OCP), over-power protection (OPP), low-voltage protection (LVP), over-temperature protection (OTP).

**SYSTEM OPERATION**

- Change display mode during normal operation
  
The first line: the actual voltage. Press the knob shortly to switch the second line displayed mode: the actual current, power, electric quantity, running time. In any display mode, rotate the knob to return current displayed.

- Lock current to prevent misoperation
  
  In the mode of current displayed, long press the button "STOP" to lock and unlock the current. The locking symbol "L" will be displayed in front of the current after locking, and you can’t rotate the knob to adjust the current to prevent misoperation.

- Test supported fast charging protocol
  
  In long press the trigger button "TRG", the load will test fast charging protocol QC2.0, QC3.0, AFC, FCP one by one. The supported fast charging protocol will be displayed when finish testing, QC2.0 will be displayed "2", QC3.0 will be displayed "3", AFC will be displayed "A", FCP will be displayed "F".

- Trigger the output of fast charging protocol
  
  Short press the trigger button "TRG" to enter the choice mode of fast charging protocol ➔ rotate the knob to switch protocol ➔ press the knob shortly to select the protocol. (If the selected protocol is QC2.0 or QC3.0, you can rotate the knob to change the operating voltage, clockwise rotation is "+", anticlockwise rotation is "−". The adjusted voltage will be displayed on the second line, 5V will be displayed "+0.5", and so on. Press the knob to select the adjusted voltage.)
  
The load will go back to normal operation and run on the selected protocol. If the charging device doesn’t support the selected protocol, the voltage will go down to the voltage supported by the charging device.

- Set parameter
  
  Long press the knob to enter the mode of the setting parameter. Rotate the knob to change the parameter, clockwise rotation is "+", anticlockwise rotation is "−". Short press the knob to switch the parameter item. Long press the knob to confirm the parameter, the load will save the parameter automatically and go back to normal operation. (More Explanation of parameter please see parameter table.)

Default value and explanation of each parameter item as is shown below:

<table>
<thead>
<tr>
<th>Item</th>
<th>Default Value</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over-voltage protection (OVP)</td>
<td>25.2V</td>
<td>When the voltage reaches the value, the screen will display the flicker of &quot;OVP&quot;</td>
</tr>
<tr>
<td>Over-current protection (OCP)</td>
<td>5.1A</td>
<td>When the current reaches the value, the screen will display the flicker of &quot;OCP&quot;</td>
</tr>
<tr>
<td>Over-power protection (OPP)</td>
<td>36.5W</td>
<td>When the power reaches the value, the screen will display the flicker of &quot;OPP&quot;</td>
</tr>
<tr>
<td>Low-voltage protection (LVP)</td>
<td>4V</td>
<td>When the voltage falls down to the value, the screen will display the flicker of &quot;LVP&quot;</td>
</tr>
<tr>
<td>Over-temperature protection (OTP)</td>
<td>80°C</td>
<td>When the temperature reaches the value, the screen will display the flicker of &quot;OTP&quot;</td>
</tr>
</tbody>
</table>

**CONTACT US**

If any problem, feel free to contact us,
Website: www.ucontronics.com
Email: support@ucontronics.com