Solar Portable All-purpose Charger
User's Guiders

Solar Portable Rechargeable Battery

"A Treasure in Hand, Carefree Travelling Ahead"
Solar Portable All-purpose Charger
User Guide (Business)
(A01/ X02A  S01A / 02A)

1. Application:

A02A
S02A
A01 X  A02 X  A03 X
S01 X  S02 X  S03 X
16V grades can charge for car Battery,  24V grades can charge for Truck Battery

II. (A02A/S02A) Components:

1. Charging Indicator light: Charging=Red, Full=Green
2. NOKIA port: 19V
3. Output voltage indicator: 5V, 9V, 13V, 13~16.8V, 19V
4. **MINI USB Port**: 5V / 1A, 9V / 1.5A, 12V / 2A, 13~16.8V / 3.5A, 19V / 3.5A
5. **MINI USB Port**: Solar charger input
6. **LED Flashlight**: Ø10MM LED
7. **DC Input Port**: 100~240V AC / 18V DC. Car 12~24V DC / 18V DC
8. **Ultrasonic mosquito killer switch**: 40~80000Hz, Auto Frequency Conversion
9. **LED Switch**: ON/OFF
10. **Solar cell**:
11. **Voltage Indicator Light**: ON/OFF And Voltage Button Switch.
12. **Intelligent Keys**: ON/OFF And Voltage Button Switch.

**III. Features:**
- **Size**: 140MM X 90MM X 20MM
- **Weight**: 250 g
- **Battery Status Button**: 3.7V / 1200mA/h (37Wh/h) / 16500mAh (55.5Wh/H)
- **Output(V)**: 5V / 9V / 13V / 13~16.8V / 19V
- **Output(A)**: 1A (5V), 1.5A (9V), 3A (13V), 3.5A (13~16.8V), 3.5A (19V)
- **Input(V)**: 18V
- **Input(A)**: 1000Ma
- **Charge Time**: <3h

**Circuit Protection**: Over charge discharge protection short circuit protection heat protection.

**Automatic Functions**: Scan check, Double-Click the key voltage indicator light, Output lock.

**Working Temperature**: Output: -5~60°C, Input: -10~60°C

**Deposited Temperature**: Long-term: -10~45°C

**Battery Life**: After 700 times charge/discharge, Capacity ≥75%.

**IV. How to Use:**
1. **ON**: Key-press last for about 4 seconds, Voltage indicator light is no, It begins to circular self-examination.
2. **Voltage Adjustment**: Double-click the key the voltage will adjust circularly from low to high. And the range of the voltage is noticed upside the 4 lights.
3. **OFF**: Key-press last for about 4 seconds, Light & power both off. And circuit turns into dormancy operation is simple.
4. **Charge**: Two ways to charge, With AC 100~240V adapter and with car DC 12~24V, Green light is on when the charging is full.

**V. Remember:**
- **A**: You must adjust the output voltage first before you connect the cable. Otherwise, The output voltage cannot be adjusted for protecting the inexpert use.
- **B**: Please confirm your product Voltage (V) & Current (A) are match with Easi-Clever before you use.
- **C**: The raw material used for manufacturing products reaches the environmental standard.
- **D**: If case of misoperation, the device will enter self-protection procedure and all work stop, switch keys failure to work.
Please charge for 5 to 10 seconds with the adapter, the device can be activated again and return to normal status.

VI. Accessories:

- **Standard accessories**
  1. Universal Connection 2PC.
  2. Car DC/DC charger 1 PC.
  3. AC 100~240V adapter 1 PC.

- **Accessories (optional part)**
  1. Mobile phone and Digital plugs: 15 PCS.
  2. Laptop PC DC plugs: 15 PCS.

**Components:**

- Lithium ion polymer Battery capacity: 3.7V 20000 MA/H(O1), 30000 MA/H(O2), 54000 MA/H(O3)
- Intelligent key: Power on/off button and Voltage choice button
- Battery status button
- Battery status light: 4 lights show=100%, 3 lights show=75%, 2 lights show=50%, 1 light show=25%
- Output voltage light: I=16V, II=19V, III=22V, IV=24V
- Charging Indicator: 2A
- Output Indicator: 1A (USB5V), 4A (16V, 19V, 22V, 24V)
- DC input Port: 100~240V AC / 38V DC. 12~24V DC / 18V DC for car charge.
- 5~16.8 voltage Port: 16V, 19V, 22V, 24V
9. USB Port: 5V

10. Ultrasonic mosquito killer button

11. Ultrasonic mosquito killer speaker: 40~80000HZ Auto frequency conversion

III. Features:

Size: 282MM X 205MM X 18MM
Weight: 980~1100g
Capacity: 3.7V 20000 MA/H(01), 30000 MA/H(02), 50000 MA/H(03)
Output(V): USB 5V, 16V, 19V, 22V, 24V
Output(A): 0.5A (USB 5V), 4A (16V,19V,22V,24V)
Input(V): 18V
Input(A): 2A (MAX)
Charge Time: <3h
Electric eye dimension: 235mmx145mm (B-S)
Peak power supplied by photocell 4W (B-S)
Circuit protection: Over charge discharge protection, short circuit protection, heat protection.
Automatic function: Scan check, Double-Click the key voltage indicator light, Output locked.
Working temperature: Output: -5~60°C Input: -10~60°C
Deposited temperature: long-term -10~45°C
Batteries life: After 500 times charge/discharge, Capacity ≥75%.

II. (A01 A A02 A A03 A S01 A S02 A S03 S)Components:

Lithium ion polymer Battery capacity: 3.7V 20000MA/H(01),30000 MA/H(02), 50000MA/H(03)
1 Intelligent key: Power on/off button and Voltage choice button
2 Battery status button
3 Low and high voltage button on the left can choose 3, 6, 9, 12V (voltage), on the right side can choose 16,19,22,24V (voltage.)
4 Battery status indicator and Output voltage indicator: green light show Battery status =25%,50%,75%,100%.
Red light show Output voltage=3V, 6V, 9V, 12V.
5 Output voltage Indicator: blue light show Output voltage=16V, 19V, 22V, 24V.
6 Charging Indicator: Green light=Solar Charging, Red light=AC Charging.
7 Output Indicator: Working=RED Light.
8 3V~12V/16~24V voltage Port: 3V/5V/12V, 16V/19V/22V/24V
9 USB Port: 5V
10 DC input Port: 100~240V AC /18V DC

III. Features:
Size 282MM X 205MM X18MM
Weight 980g(1100g)/1300g (20000MAH/30000MAH/54000MAH)
Capacity 3.7V 20000 MAh (74Wh) /30000MAh/4111Wh)/54000MAh(200Wh)
Output(V): USB 5V, 3V, 6V, 9V, 12V, 16V, 19V, 22V, 24V
Output(A): 1A (USB 5V), 1A (3V,6V), 1.3A (9V,12V), 1.5A (16,19,12V,22V,24V)
Input(V): 18V
Input(A): 2500 MA (MAX)
Charge Time: < 3 h
Electric eye dimension: 235mmx145mm (B-S)

Peak power supplied by photodetector: 4W (B-S)

Circuit protection: Over charge discharge protection short circuit protection heat protection.
Automatic function: Scan check, Double-Click the key, output voltage indicator light, Output locked.

Working temperature: Output -5~60°C Input -10~60°C
Deposited temperature: long-term -10~45°C

Batteries life: After 500 times charge/discharge, Capacity ≥75%

IV. How to use:
a. ON: press the power on/off button and hold for about 4 seconds, 4 Voltage indicator lights are light. It begins the circular self-examination.
b. Voltage adjustment: Double-click the voltage choice button, the voltage will adjust circularly from low to high, double click the button, voltage grade will jump to next higher level.
c. OFF: press the power on/off button and hold for about 4 seconds, Light & power both off, and circuit turns into dormancy operation.
d. Output voltage options: When the icon (3) switch on the left, the output voltage is in the 3~12V cycle, when the icon (3) switch to the right, the output voltage is in the 15~24V cycle. Double-click the "power" button, the voltage can be changed and recycled.
e. Charge for built-in polymer battery: With AC 100~240V adapter and with car DC 12~24V, both ways can charge built-in battery. Green light on when the charging is full.
When placed under the sunshine, the solar panel will automatically recharge battery.

V. Remember:
a. For avoid misoperation, you must first select relevant voltage grade for your charging device and then connect the cable to our product. When cable is connected, the voltage grade will not be able to adjust any more.
b. Please confirm your device to be charged voltage (V) & current (A) are accord with the voltage grade that you select.
C. In case misoperation, the device will enter self-protection procedure and all work stopped, switch keys failure to work. Please charge for 5 to 10 seconds with the adapter, the device can be activated again and return to normal status.

The raw material used for manufacturing products reaches the environmental standard.

(VI). Accessories:
Standard accessories:
- Universal connect wire 2 PC.
- Car DC / DC 12–24V charger 1 PC.
- AC / DC 100–240V adapter 1 PC.

Optional accessories:
- Mobile phone and Digital product connectors: 16pcs (optional)
- Laptop PC connectors: 15pcs (optional).

(VII). Questions:
Q: Can not turn on properly?
A: 1. Please check the battery status is empty or not.
   2. Please press and hold the key for 4 seconds until the operation light is on, if both of the methods are unable to solve the problem, please re-charge the battery at least 5–10 min.'s.

Q: Can not shut down properly?
A: 1. Please make sure the connection cable is disconnected from product.
   2. Please press and hold the key for 4 seconds until the operation is off, if both methods are unable to solve the problem, please contact the retailer directly.

Q: Can not re-charging this product or charging/supply to others?
A: 1. Please check the connection cable connected properly/tightly.
   2. Please check if the battery status is low.
   3. Please check the output Voltage (V) / Current (A) are accord with the product.

Q: Connection cable, adapters are occurring unusual high temperature?
A: 1. Please check the output or any metallic items causing the short-circuit.
   2. Please adjust to the lower output voltage.
   3. Please make sure you are using the correct cable/adapters for the product.

Q: Will PWH solar portable all-purpose charger damage my products if I choose a voltage grade wrongly?
A: Different electronic products needs different charging voltage. Please confirm your products Voltage (V) & Current (A) are match with PWH Solar portable all-purpose charger before you use, Damage will be caused if output voltage is too high.

(VIII). Exemption Clause:
1. Since the PWH Solar portable all-purpose charger will provided a wide range of output, warranty will be
avoided if there is any fault operation.

2. Do not tear down this product without permission. If any factitious damage is found, then our company will not offer the guaranteed R's service. While using, it shall not be hot (over 60°C), damp or corrosive environment.

3. While using, please do not let water in, absorb oily dirt, or use edge tool to fiddle with keys and input/output port. When it is accidentally wringing, please wipe it up with dry towel. Do not roast it under high temperature.

4. Please turn off the power, then pull out the universal cable and adaptor after charging/discharging.

Do not throw away the waste and old products at will. Please deal with the old and useless products according to the local government's regulation
<table>
<thead>
<tr>
<th>No.</th>
<th>Photograph</th>
<th>Brand</th>
<th>Model</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><img src="Image" alt="Motorola" /></td>
<td>Motorola</td>
<td>T298/T299/T290/T299/R230/T300/T130/T192/V150/V228/V239/T1 97TV399V220/T228/R380/V220/V239MC330/C332/C339/C350 /C370/C550/G550/C550</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td><img src="Image" alt="Samsung" /></td>
<td>LG</td>
<td>G4010/G4011/G405/G4050/G4040/L100/L110/L120/L400/V440 0/V4400/P5040/P5050/G5040/G5050/P5060/P5080</td>
<td>N/A</td>
</tr>
<tr>
<td>3</td>
<td><img src="Image" alt="LG" /></td>
<td>LG</td>
<td>KG300/KG500/KG500/VS8500/KV8600/KG70/KG7/KG580/KG510/K970 0/K9970</td>
<td>N/A</td>
</tr>
<tr>
<td>4</td>
<td><img src="Image" alt="SONY Ericsson" /></td>
<td>NOKIA</td>
<td>6010/610/710/890/822/X33/X13/X820/K830/B660/B800/8111/8 6100/B120/N73/7360/2356/6650/6280/5700/676W55</td>
<td>2.0*0.6</td>
</tr>
<tr>
<td>5</td>
<td><img src="Image" alt="Nokia" /></td>
<td>Nokia</td>
<td>1300/1434/1349/2199/1600/1620/1620/1640/6660/6300/6280/1640/82 0/820/3000/3300/5800/6000/6100/3198/3080/S3080</td>
<td>3.5*1.1</td>
</tr>
</tbody>
</table>

**Mobile Phone Connectors** (Optional Parts)
<table>
<thead>
<tr>
<th>No.</th>
<th>Photograph</th>
<th>Brand</th>
<th>Model</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>[Image]</td>
<td>SONY</td>
<td>Ericsson</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Digital connector**

<table>
<thead>
<tr>
<th>No.</th>
<th>Photograph</th>
<th>Brand</th>
<th>Model</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>[Image]</td>
<td>CANON</td>
<td>A700/A50</td>
<td>2.5*07</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SAMSUNG</td>
<td>A5/AS/545/3/C-A24/CFE8/CFE9/360/530;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CASIO</td>
<td>QV-11;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PENTAX</td>
<td>F100;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MINDITA</td>
<td>F100;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OLYMPUS</td>
<td>C-360/C-460;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>KODAK</td>
<td>C420/C4880/C484400/C5450/C6450/C7450;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OLYMPUS</td>
<td>C-745/C-862/C-960/C-54/C-740-U-410/U-490/U-590/U-380;</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Photograph</td>
<td>Brand</td>
<td>Model</td>
<td>Size</td>
</tr>
<tr>
<td>-----</td>
<td>------------</td>
<td>-------</td>
<td>-------</td>
<td>------</td>
</tr>
<tr>
<td>19</td>
<td></td>
<td>SONY</td>
<td>SONY-DV-CE50/190K/31663/WC450/2800L/812/712/318</td>
<td>N/A</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td>SAMSUNG</td>
<td>SAMSUNG Digital Camera</td>
<td>N/A</td>
</tr>
<tr>
<td>21</td>
<td></td>
<td>PALM ONE</td>
<td>TREO 650/650i/680 /Tungsten E/T750</td>
<td>N/A</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td>JVC</td>
<td>JVC-GR-DF570AC/R70AC/AC/D270AC/D270AC/50AC/GR-X5AC</td>
<td>N/A</td>
</tr>
<tr>
<td>23</td>
<td></td>
<td>APPLE</td>
<td>IPod, iPhone</td>
<td>N/A</td>
</tr>
</tbody>
</table>
### Laptop Connector

<table>
<thead>
<tr>
<th>No.</th>
<th>Photograph</th>
<th>Brand</th>
<th>Model</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>B6</td>
<td><img src="https://via.placeholder.com/150" alt="ASUS Connector" /></td>
<td>ASUS</td>
<td>4.75*1.7</td>
<td></td>
</tr>
<tr>
<td>B5</td>
<td><img src="https://via.placeholder.com/150" alt="Samsung Connector" /></td>
<td>SAMSUNG</td>
<td>5.0*1.0</td>
<td></td>
</tr>
<tr>
<td>B3</td>
<td><img src="https://via.placeholder.com/150" alt="HP Connector" /></td>
<td>HP</td>
<td>5.5*2.5</td>
<td></td>
</tr>
<tr>
<td>A6</td>
<td><img src="https://via.placeholder.com/150" alt="Acer/T1 Connector" /></td>
<td>Acer/T1</td>
<td>5.5*2.5</td>
<td></td>
</tr>
</tbody>
</table>

**ASUS Models:**
- B6: B4600, B5300, L7000, L7200, L7230, L8400, MX800, V3, V3000, V3500, V3700, V5000, V7000, V7100
- B5: B4600, L7000, L7200, L7230, L8400, MX800, V3, V3000, V3500, V3700, V5000, V7000, V7100
- B3: N1000, N1200, N1500, N2000, N4000, N4100, N6000, N8000

**SAMSUNG Models:**
- B5: NV40, NV45, NP305, NP310, NP311, NP312, NP313, NP314

**HP Models:**
- B5: N105, N115, N120, N125, N130, N134, N140, N220, N240, N250, N260, N3000, N3200, N4000, N5000
- B3: N105, N115, N120, N125, N130, N134, N140, N220, N240, N250, N260, N3000, N3200, N4000, N5000

**Acer/T1 Models:**
- A6: Acer/T1, 395, 399, 393, 392, 391, 390, 395, 399, 393, 392, 391, 390, 395, 399, 393, 392, 391, 390, 395, 399, 393, 392, 391, 390, 395, 399, 393, 392, 391, 390
<table>
<thead>
<tr>
<th>No.</th>
<th>Photograph</th>
<th>Brand</th>
<th>Model</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td></td>
<td>SONY</td>
<td>LAPTOP</td>
<td>6.0&quot;×1.0</td>
</tr>
<tr>
<td>B2</td>
<td></td>
<td>IBM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B3</td>
<td></td>
<td>DELL</td>
<td></td>
<td>5.5&quot;×2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IBM</td>
<td></td>
<td>5.5&quot;×2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NEC</td>
<td></td>
<td>3.0&quot;×2.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toshiba</td>
<td></td>
<td>1.5&quot;×1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HP</td>
<td></td>
<td>2.0&quot;×1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acer/</td>
<td></td>
<td>2.0&quot;×1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IBM</td>
<td></td>
<td>1.5&quot;×1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NEC</td>
<td></td>
<td>1.5&quot;×1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toshiba</td>
<td></td>
<td>1.5&quot;×1.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>Photograph</th>
<th>Brand</th>
<th>Model</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td></td>
<td>DELL</td>
<td></td>
<td>7.4&quot;×0.65</td>
</tr>
<tr>
<td>A2</td>
<td></td>
<td>IBM</td>
<td></td>
<td>7.9&quot;×0.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>Photograph</th>
<th>Brand</th>
<th>Model</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td></td>
<td>SONY</td>
<td></td>
<td>6.0&quot;×1.0</td>
</tr>
<tr>
<td>B2</td>
<td></td>
<td>IBM</td>
<td></td>
<td>5.5&quot;×2.5</td>
</tr>
<tr>
<td>B3</td>
<td></td>
<td>DELL</td>
<td></td>
<td>5.5&quot;×2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IBM</td>
<td></td>
<td>5.5&quot;×2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NEC</td>
<td></td>
<td>3.0&quot;×2.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toshiba</td>
<td></td>
<td>1.5&quot;×1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HP</td>
<td></td>
<td>2.0&quot;×1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acer/</td>
<td></td>
<td>2.0&quot;×1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IBM</td>
<td></td>
<td>1.5&quot;×1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NEC</td>
<td></td>
<td>1.5&quot;×1.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Toshiba</td>
<td></td>
<td>1.5&quot;×1.0</td>
</tr>
<tr>
<td>No.</td>
<td>Photograph</td>
<td>Brand</td>
<td>Model</td>
<td>Size</td>
</tr>
<tr>
<td>-----</td>
<td>------------</td>
<td>-------</td>
<td>-------</td>
<td>------------</td>
</tr>
<tr>
<td>A3</td>
<td></td>
<td></td>
<td></td>
<td>5.3*10</td>
</tr>
<tr>
<td>A4</td>
<td></td>
<td></td>
<td></td>
<td>5.0*2.5</td>
</tr>
<tr>
<td>A5</td>
<td></td>
<td></td>
<td></td>
<td>5.0*2.5</td>
</tr>
<tr>
<td>A7</td>
<td></td>
<td></td>
<td></td>
<td>5.0*2.1</td>
</tr>
</tbody>
</table>

Mobile Phone and Digital Product Connect Wire

TO: Laptop Connect Wire

car charger DC TO DC 12~24v / 18V 1A