

|                          |                                  |
|--------------------------|----------------------------------|
| Type .....               | 57977                            |
| Designation.....         | Power Bank Energy                |
| Systems to charge.....   | Lithium-Polymer / 3.7 V / 3 pcs. |
| Cell configurations..... | 3 x 5000 mAh, 55.5 Wh            |
| Housing Material .....   | ABS                              |
| Dimensions.....          | <b>Charger:</b>                  |
| Length.....              | 138 +- 1 mm                      |
| Width.....               | 73 +- 1 mm                       |
| Height .....             | 21 +- 1mm                        |
| Weight.....              | 337 g +- 5 g                     |



|                                   |                                                          |                            |
|-----------------------------------|----------------------------------------------------------|----------------------------|
| <b>Charging methods:</b> .....    | <b>Plug in Micro USB and USB Type C port:</b>            | <b>Maintenance Charge:</b> |
| Input 1: Micro USB .....          | Current: 2000 mA                                         | N/A                        |
| Input 2: USB Type C.....          | Current: 3000 mA                                         |                            |
| <b>Discharging methods:</b> ..... | <b>USB A and Type C port for charging other devices:</b> |                            |
| Output 1 & 2 USB A.....           | 5.0 V, 2400 mA                                           |                            |
| Output 3 USB Type C.....          | 5.0 V, 3000mA                                            |                            |
| Rated Capacity                    | 8880mAh @ 5V / 1A / USB A                                |                            |

**Indications for IN:**

|               |          |          |           |
|---------------|----------|----------|-----------|
| 4 LEDs .....  | 100%     | Capacity | } LEDs on |
| 3 LEDs .....  | 75 - 99% | Capacity |           |
| 2 LEDs .....  | 50 - 75% | Capacity |           |
| 1 LED .....   | 25 - 50% | Capacity |           |
| LED off ..... | < 25%    | Capacity |           |

**Indications for OUT:**

|                    |            |          |
|--------------------|------------|----------|
| 4 LEDs .....       | 75 - 100 % | Capacity |
| 3 LEDs .....       | 50 - 75 %  | Capacity |
| 2 LEDs .....       | 25 - 50 %  | Capacity |
| 1 LED .....        | 10 - 25 %  | Capacity |
| LED blinking ..... | < 10 %     | Capacity |

**Ambient temperature:**

|                           |              |
|---------------------------|--------------|
| Charge .....              | 0 - +45 °C   |
| Discharge .....           | -10 - +55 °C |
| Storage (short time)..... | -10 - +60 °C |
| Storage (long time).....  | +10 - +35 °C |

**Cut off criteria:**

|                   |                                                        |
|-------------------|--------------------------------------------------------|
| Li-Ion cells..... | Stop discharging, when Li-Ion voltage lower than 2.8 V |
|                   | Short circuit protection                               |
|                   | Overload protection                                    |
|                   | NTC temperature protection                             |

**No publication or circulation of data to third parties without consent of VARTA Consumer Batteries**