



innovative Solarsysteme für Schule und Ausbildung
innovative solar- systems for school, college, technical education

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The smartphone charging module SUSE 4.17/4.17M

DC-DC-converter input 7...24V USB-output 5V DC 1000 mA
With 2 indicator LEDs for input and output function

The **smartphone charging module SUSE 4.17** is a DC-DC converter to be connected to solar modules with a voltage of approx. 7-24 V, that is about 14-36 solar cells in series connection.

A solar module or a series connection of several solar cells is connected to the input jacks (red=+, black=-), the red input LED between the jacks glows, if the module voltage >7 V is applied.

The output is a USB socket with a voltage of 5.0 V DC and a maximum current of 1200 mA. If the output voltage is applied, a green or blue LED glows.

Ideal for the operation are commercially available 5 W...40 W solar modules with 18 - 36 solar cells in series connection and an open circuit voltage of about 11...22 VDC.

Connection to SUSE solar modules at the input jacks:

1 solar module SUSE 4.41, SUSE 4.42, SUSE 4.51, SUSE 4.52

or

14 - 36 modules with 1 solar cell in series connection, e.g. SUSE 4.2, SUSE CM4, SUSE CM6....

or

5 - 12 modules with 3 solar cells in series connection, e.g. SUSE 4.33, 5.33.....

or

3 - 6 modules with 6 solar cells in series connection, e.g. SUSE 4.3, 4.3A, 4.3RB.....

With a USB cable included in the delivery (USB to micro USB), which is plugged into the USB port, smartphones, cell phones, tablet PCs, or powerbank rechargeable batteries can be operated and charged. The solar radio SUSE 4.36USB and solar vehicle SF6USB or other USB devices can be connected to the USB output.

The version SUSE 4.17M:

SUSE 4.17M is technically identical, but smaller in the casing design (60x45x35mm), in version A the USB port is located at the end of a 30 cm cable connector, in version B a USB double-port with 2x 1A max. current is located on the side of the casing (bottom picture).

2 indicator LEDs signal the operating state, input green, output red. At the top right there is the input jack pair with a red jack (+) and a black jack (-), a built-in protective diode prevents damage from voltage reversal. Both devices contain a modern switching regulator with a high efficiency >90%.



The smartphone charging module SUSE 4.17
On the right there are the input jacks, between them the input LED. On the left hand side the output USB port and the green or blue output LED are visible. Input voltage from 7 to 24 V DC.



charging module SUSE 4.17. The amperemeter shows the charging current of 0.24 A.

SUSE 4.17M

