MEASURE AND CONTROL UP TO 2X120A

With **Shelly EM** you can measure how much energy your solar system produces.

MEASUREMENTS

√ 2x Consumption(W)
√ 2x Current(A)
√ 2x Energy(Wh)
√ 2x Load quality
√ 1x Voltage(V)

ADDITIONAL FEAUTURES

√ 365 days built-in energy history
√ Relay output for contactor control

Wi-Fi Connected
Shelly EM can connect directly to any Wi-Fi network, no HUB required or can operate as an Access Point.

Power Supply
Shelly EM is compatible with all major international voltage standards.

Dual Power Metering
Shelly EM can monitor energy consumption in real time in 2 points simultaneously (up to 120A each).

Contactor Control
2A / 230V 50/60Hz. Shelly EM has integrated relay output made for contactor control.

Mobile app control
Turn devices on/off directly from your smartphone or tablet. You can manage Shelly EM output from Shelly app, MQTT or Rest API.

Overconsumption and Over Energy Protection
No more forgotten turned on appliances. The integrated countdown timer can automatically switch off your oven after an hour.

Embedded Web Server
Turn on/off Shelly devices directly from its interface without the need of any additional controller or hub, thanks to the embedded web.

Sunrise/Sunset Shedules
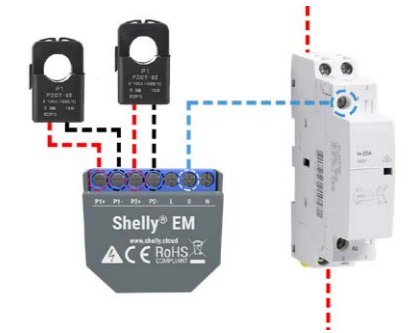Shelly EM can automatically turn on/off based on the sunrise and sunset hours.

Weekly Schedules
Choose a time and create custom daily schedules for your devices.

TECHNICAL SPECIFICATIONS

Power supply	110-230V ±10, 50/60Hz AC
Power metering	Two channels, up to 120A each
Consumption history	365 days built-in energy history (Wh)
Contactor control	Maximum load: 2A / 230V 50/60Hz.
Complies with EU standards:	• RE Directive 2014/53/EU • LVD 2014/35/EU • EMC 2014/30/EU • RoHS2 2011/65/EU
Working temperature	0°C ÷ 40°C
Radio signal power:	1mW
Wireless/WiFi Protocol	802.11 b/g/n (2.4 GHz)
Frequency	2412 - 2472 MHz
Operational range (depending on local construction)	• up to 50 m outdoors • up to 30 m indoors
Dimensions (HxWxL)	39x36x17 mm
Electrical consumption:	< 1 W
Additional features	• Overpower shutdown • Consumption limit

CONTROL 120A SAFE AND EASY

Shelly EM has integrated relay output made for contactor control

• **Remote control from anywhere**
You can manage ShellyEM output from Shelly app, MQTT or Rest API

• **Overpower Control**
Automatic shutdown or notification when reaching current consumption limit.

• **Turn off when total consumption is reached**
Automatic shutdown when power is reached.

• **Weekly scheduling by time or sun position**
Auto turn on and off by hour or sunset and sunrise.