

# Shelly

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**POSSIBILITIES**

Shelly

## Shelly EM Gen3 1 x 50A CT included

Medidor de energía inteligente de pequeño tamaño que utiliza hasta 2 transformadores de corriente (medición sin contacto), lo que permite medir el consumo de energía de los aparatos eléctricos e informar de ello a un teléfono móvil, tableta, PC o sistema de domótica

3 años de garantía



# Shelly EM Gen3 1 x 50A CT included

## Especificaciones técnicas

Quantity	Value
<b>Physical</b>	
Size (HxWxD):	37x42x16 mm / 1.46x1.65x0.63 inch
Weight:	•EM Gen3 - 23 g / 0.81 oz •CT 50A - 50 g / 1.76 oz
Screw terminals max torque:	0.4 Nm / 3.5 lbin
Conductor cross section:	0.2 to 2.5 mm <sup>2</sup> / 24 to 14 AWG (solid, stranded, and bootlace ferrules)
Conductor stripped length:	6 to 7 mm / 0.24 to 0.28 in
Mounting:	Wall console, Electrical cabinet
Shell material:	Plastic
Shell color:	•White •Charcoal gray
Connectors color:	Black
<b>Environmental</b>	
Ambient working temperature:	-20 °C to 40 °C / -5 °F to 105 °F
Humidity:	30 % to 70 % RH
Max. altitude:	2000 m / 6562 ft
<b>Electrical</b>	
Power supply:	110 - 240 V~ 50/60 Hz
Power consumption:	< 1.2 W
Neutral not needed:	Yes or No
External protection:	2 A, tripping characteristic B or C, 6 kA interrupting rating, Energy limiting class 3
<b>Output circuits ratings</b>	
Max. switching voltage:	240 V~
Max. switching current:	2 A/240 V~
<b>Sensors, meters</b>	
Voltmeter (AC):	110-240 V~ 50/60 Hz
Voltmeter accuracy:	±2%
Ammeter (AC):	0 - 80A
Ammeter accuracy:	±2 % (2 - 50 A), ±2 % (1 - 2 A), ±5 % (0 - 1 A)
Compatible current transformers:	•CT 50A (included in the package) •CT 80A
Power and energy meters:	•Active and apparent power •Active and apparent energy •Power factor •Fundamental active and fundamental reactive energy

Channel-to-channel calibration minimum load:	500 W
No load threshold:	30 VA per channel
Measurement data storage:	At least 10 days of 1 min data resolution
Data export:	•CSV for PQ recorded values •JSON format export through RPC
Internal-temperature sensor:	Yes
<b>Radio</b>	
<b>Wi-Fi</b>	
Protocol:	802.11 b/g/n
RF band:	2412 - 2472 MHz
Max. RF power:	< 20 dBm
Range:	Up to 30 m / 100 ft indoors and 50 m / 160 ft outdoors (Depends on local conditions)
<b>Bluetooth</b>	
Protocol:	4.2
RF band:	2402 - 2480 MHz
Max. RF power:	< 4 dBm
Range:	Up to 10 m / 33 ft indoors and 30 m / 100 ft outdoors (Depends on local conditions)
<b>Microcontroller unit</b>	
CPU:	ESP-Shelly-C38F
Flash:	8 MB
<b>Firmware capabilities</b>	
Schedules:	Yes
Webhooks (URL actions):	20 with 5 URLs per hook
Scripting:	Yes
MQTT:	Yes
Encryption:	Yes (Transport level)
Authentication:	Yes (Application and transport level)

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