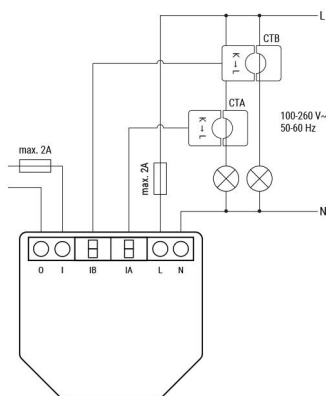
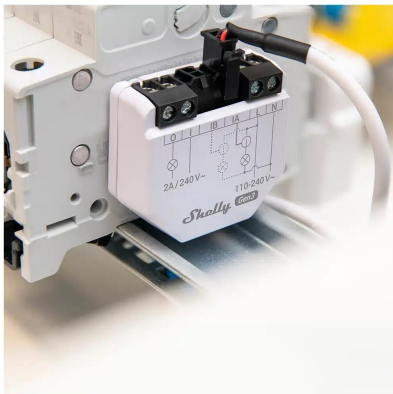
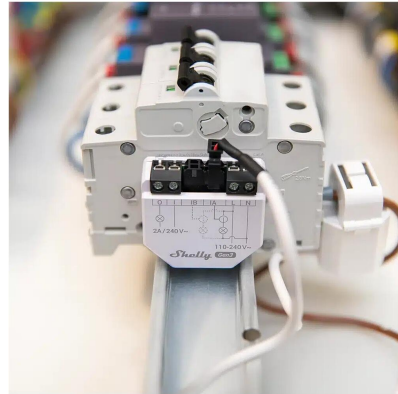


## SHELLY EM GEN3

## SHELLY EM GEN3 + 50A clamp Power Meter

## Product Overview

SHELLY EM GEN3 + 50A clamp Power Meter, Provides Real-Time insights into the Power consumption of your connected devices, 110-240 V voltmeter (AC), 0 - 80A ammeter (AC), CT 50a compatible current transformers, at least 10 days of 1 min Data Resolution measurement Data storage, Wi-Fi, Bluetooth, no Hub required



## Specifications

### Overview Summary:

Shelly EM Gen3 + 50A Clamp Power Meter provides precise, real-time monitoring of your electricity usage, helping you optimize energy efficiency and reduce costs. Easy to install, it connects via Wi-Fi or Bluetooth without a hub and logs up to 10 days of 1-minute interval data for detailed insights. Shop now to take control of your home or facility's power consumption.

Ideal for homeowners and facility managers, this smart meter allows you to monitor multiple devices, control high-power appliances, and track energy patterns for better savings. Buy now and enjoy seamless integration with your smart home system.

**Performance tier:**Advanced

**Uses:**Home energy monitoring, Appliance management, Smart home automation, Power consumption tracking, High-power device control

### Overview:

#### Shelly EM Gen3 + 50A Clamp Power Meter

Gain precise control over your energy usage with Shelly EM Gen3 . Designed for real-time monitoring, this smart power meter gives you actionable insights into the electricity consumption of your devices, helping you optimize efficiency and reduce costs.

### Description:

Shelly EM Gen3 allows homeowners and facility managers to track power usage with high accuracy. It supports Wi-Fi and Bluetooth connectivity, can connect up to two current transformers, and logs energy data locally for 10 days in 1-minute intervals. With support for smart schedules, scripting, and advanced automation protocols, it integrates seamlessly into modern smart home systems. The included 50A clamp ensures you can start monitoring immediately.

### Features:

#### How Shelly EM Gen3 Works

Shelly EM Gen3 provides live power consumption data for your connected devices, revealing energy patterns and helping you identify opportunities to save. Its dual-channel design supports single-phase monitoring, while the included current transformers enable contactless measurement. With local and cloud data logging, you can access historical energy data to make informed decisions.

#### Connectivity Options

- Connect directly via Wi-Fi without a hub
- Quick Bluetooth setup or use as a Bluetooth gateway
- Compatible with smart home automation systems

#### Power and Load Management

- Monitor up to two current transformers simultaneously
- Dry contact switch allows control of heavy-load appliances
- Track real-time voltage and current (110-240V AC, 0-80A)

#### Data Storage and Automation

- Logs stored locally for up to 10 days at 1-minute intervals
- Cloud storage extends data history up to 365 days

- Supports smart schedules, scripts, webhooks, and MQTT for custom automation

## Practical Applications

### Total Power Monitoring

Shelly EM Gen3 tracks your home's total energy consumption. Ideal for single-phase homes, it provides a clear view of usage patterns and enables automatic control of non-essential devices for energy savings.

### Controlling High-Power Appliances

Manage energy-hungry appliances such as water heaters, heat pumps, or large kitchen equipment. Shelly EM Gen3 allows precise monitoring and contactor control to prevent energy waste.

### Appliance Health Monitoring

Identify unusual energy consumption trends to detect potential appliance issues early. Monitoring individual device usage helps maintain efficiency and prolong appliance lifespan.

## Advanced Gen3 Series Benefits

### Ready for Future Updates

Gen3 devices are designed to be upgradable to Matter, offering new smart home capabilities and broader integration options.

### Increased Memory for Better Performance

Equipped with an 8MB Shelly chip, Gen3 devices ensure smoother operation and support more advanced functionalities.

### Unified Smart Control

With virtual components in the Shelly Smart Control app, integrate and control both Shelly and third-party devices from a single interface for streamlined management.

### Installation Guidance

Installation of certain Shelly devices should be performed by a qualified electrician or authorized installer to ensure safety and compliance.

## Wiring Diagram Overview

### Terminals & Connections

- O: Load circuit output
- L: Live wire (110-240V AC)
- I: Load circuit input
- N: Neutral wire
- IA: First channel current transformer input
- IB: Second channel current transformer input
- CTA: First channel current transformer
- CTB: Second channel current transformer

Shelly EM Gen3 + 50A Clamp is your all-in-one solution for real-time energy monitoring, smart automation, and appliance management, designed to help you save energy and maintain optimal device performance.

## Specifications:

© 2025 Respective owners and brand holders. This table has been carefully researched and generated by ComXpert International CC (<http://www.comx.co.za>), however, errors and omissions may occur. Only references to South Africa apply. All products are sourced in South Africa from the official suppliers and the warranty is that of the local supplier. E&OE. This table and our site's content may be used on condition that this notice and link remains intact and unaltered.

## ComX Computers

### Product Specification Sheet

| Specifications                  |                                                                                    |
|---------------------------------|------------------------------------------------------------------------------------|
| Product Code                    | SHELLY EM GEN3                                                                     |
| Physical                        |                                                                                    |
| 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                                                                              |
| Environmental                   |                                                                                    |
| Ambient working temperature     | -20 degreesC to 40 degreesC / -5 degreesF to 105 degreesF                          |
| Humidity                        | 30 % to 70 % RH                                                                    |
| Max. altitude                   | 2000 m / 6562 ft                                                                   |
| Electrical                      |                                                                                    |
| 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                                                            |
| Output circuits ratings         |                                                                                    |
| Max. switching voltage          | 240 V~                                                                             |
| Max. switching current          | 2 A/240 V~                                                                         |
| Sensors, meters                 |                                                                                    |
| 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                                                                             |

## ComX Computers

### Product Specification Sheet

|                                             |                                                        |
|---------------------------------------------|--------------------------------------------------------|
| 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                                                    |
| Wi-Fi                                       |                                                        |
| Protocol                                    | 802.11 b/g/n                                           |
| RF band                                     | 2412 - 2472 YesHz                                      |
| Max. RF power                               | < 20 dBm                                               |
| Range                                       | Up to 30 m / 100 ft indoors and 50 m / 160 ft outdoors |
|                                             | (Depends on local conditions)                          |
| Bluetooth                                   |                                                        |
| 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)                          |
| Microcontroller unit                        |                                                        |
| CPU                                         | ESP-Shelly-C38F                                        |
| Flash                                       | 8 MB                                                   |
| Firmware capabilities                       |                                                        |
| 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)                  |

## Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

**Product page:**

**<https://www.comx-computers.co.za/SHELLY-EM-GEN3-SHELLY-EM-GEN3-50A-clamp-Power-Meter-Buy-p-328044.php>**

---

*Images and specifications are provided for reference and are subject to change without notice. E&OE.*

Terms of Use: <https://www.comx-computers.co.za/terms-of-use.php>

Terms of Sale: <https://www.comx-computers.co.za/terms-of-sale.php>

---

PDF generated: 2026-10-14 16:25:09.

This PDF was generated automatically and may include content prepared or assisted by automated or AI-based systems. While reasonable care is taken to ensure accuracy, errors or omissions may occur.

For the most current and accurate product information, please refer to the product information available on our website. If any specification or other information differs from information published elsewhere, please confirm the details with us before relying on the information or making a purchasing decision.

If you identify an error or discrepancy, please report it to us so that we may investigate and correct it where necessary.