

Shelly 3EM-63T Gen3

Shelly 3EM-63T Gen3 Wi-Fi Smart 3-Phase Energy Meter User Manual

Model: 3EM-63T Gen3

1. INTRODUCTION

The Shelly 3EM-63T Gen3 is a smart energy meter designed for monitoring three-phase electrical systems or three independent single-phase circuits. This device provides precise measurements, real-time data, and data logging capabilities, making it suitable for both home and business energy management, as well as solar energy monitoring. It integrates seamlessly into various smart home and professional setups. Key features include 4-quadrant measurement, optical pulse indication, Accuracy Class B, and support for photovoltaic systems. The Gen3 series incorporates Matter Version 1.2, an ESP-Shelly-C38F chip with 8 MB Memory, and Virtual Components for enhanced integration.

2. SAFETY INFORMATION

WARNING: Installation of this device involves working with high voltage electricity. To avoid risk of electric shock or death, installation must be performed by a licensed electrician or qualified professional in accordance with all applicable electrical codes and regulations.

- Always disconnect the main power supply before performing any installation or maintenance.
- Ensure all connections are secure and properly insulated.
- Do not expose the device to water or extreme temperatures.
- Use the device only for its intended purpose.

3. PRODUCT OVERVIEW

The Shelly 3EM-63T Gen3 is a compact device designed for DIN rail mounting within an electrical panel. It features indicators for connection status and energy flow, along with a reset button.

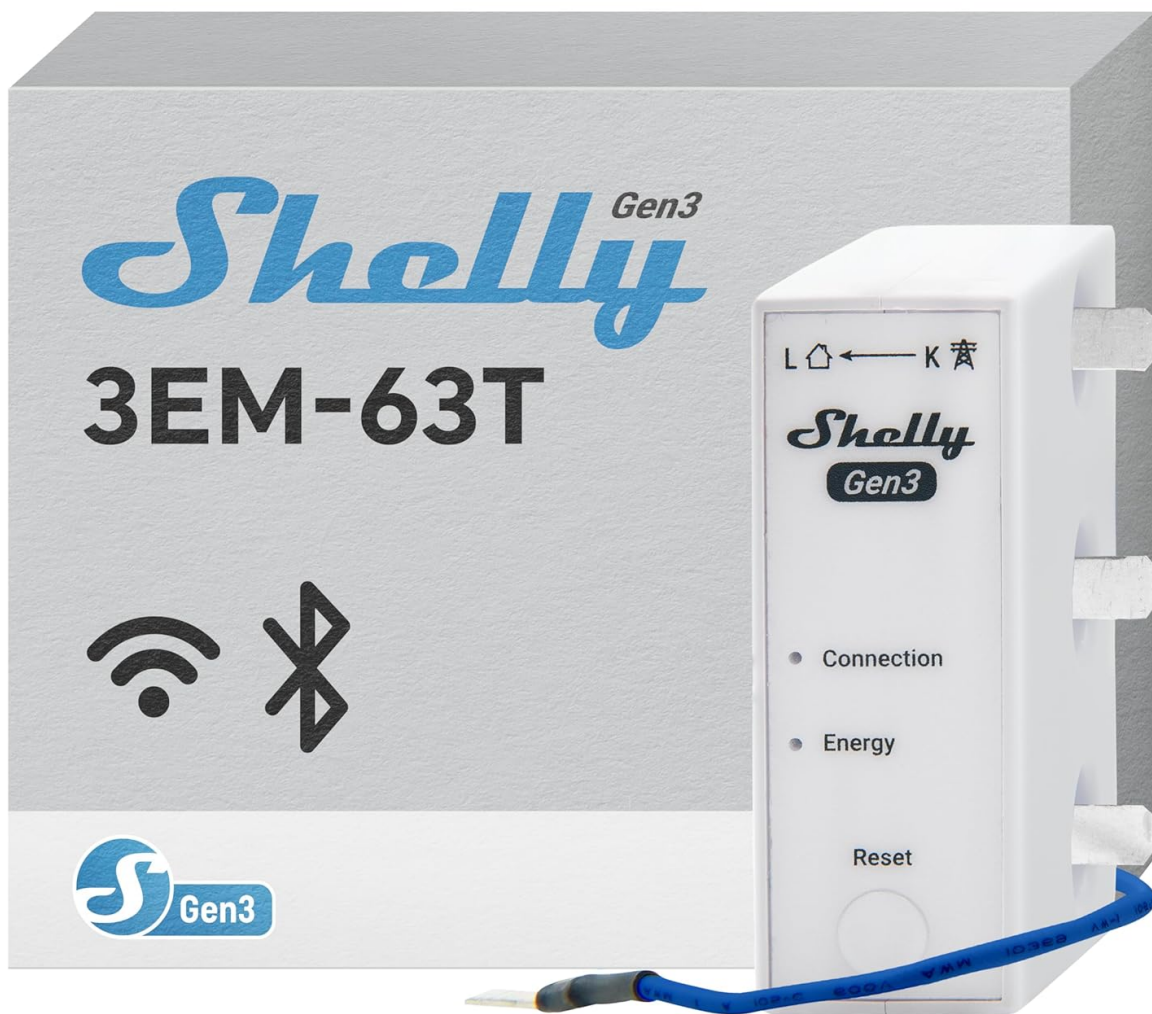


Image: The Shelly 3EM-63T Gen3 energy meter shown with its product packaging. The device is white with indicators for Connection and Energy, and a Reset button. It has three flat terminals for current measurement.

3.1 Dimensions and Connectivity

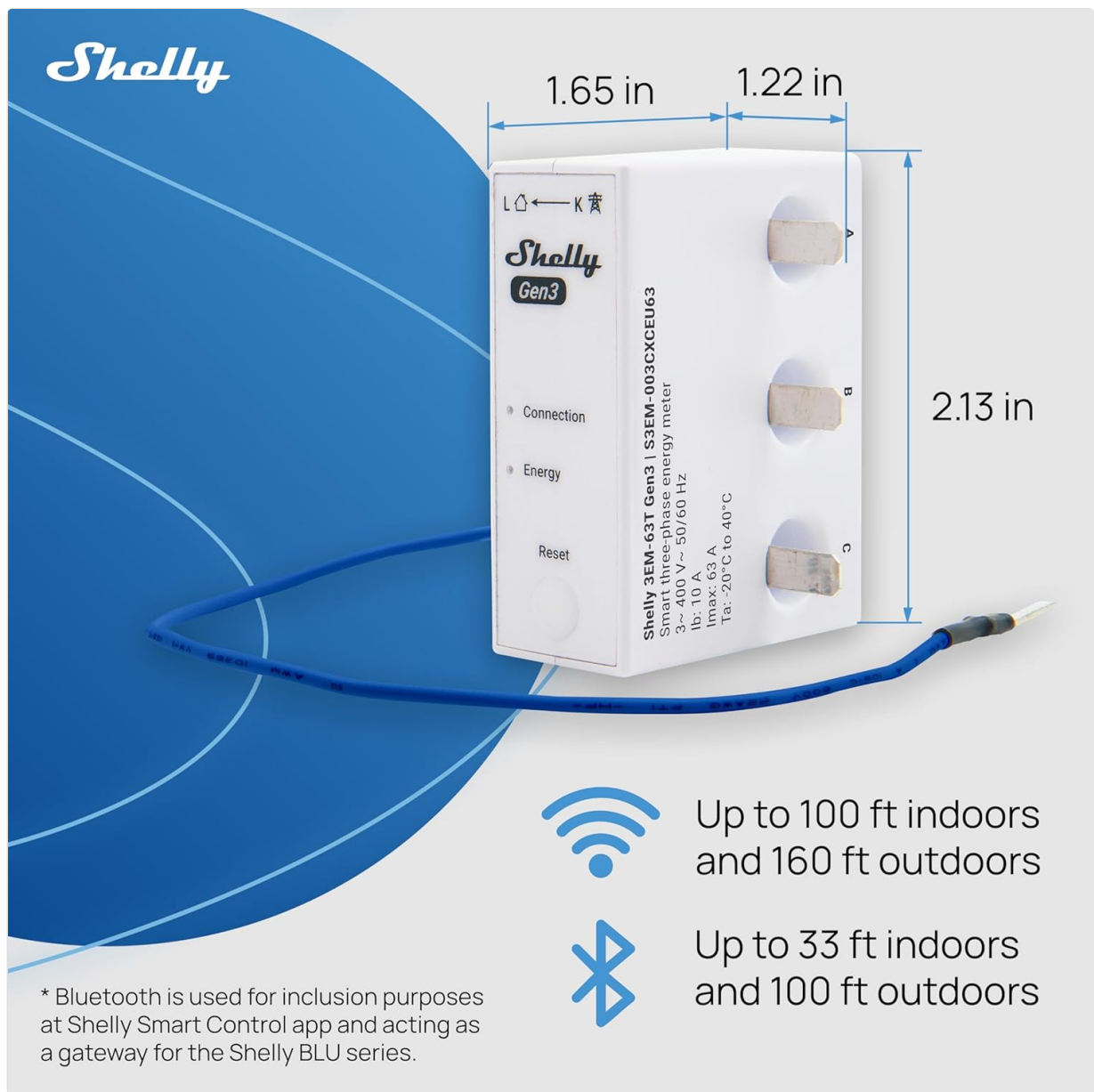


Image: A diagram illustrating the dimensions of the Shelly 3EM-63T Gen3 (1.65 in x 2.13 in x 1.22 in) and its wireless connectivity ranges. Wi-Fi range is up to 100 ft indoors and 160 ft outdoors. Bluetooth range is up to 33 ft indoors and 100 ft outdoors.

The device dimensions are approximately 1.65 x 2.13 x 1.22 inches. It supports Wi-Fi for network communication and Bluetooth for initial inclusion and as a gateway for Shelly BLU series devices.

4. SETUP AND INSTALLATION

The Shelly 3EM-63T Gen3 is designed for installation within an electrical panel. Due to the nature of electrical work, installation must be performed by a licensed electrician or qualified professional.

4.1 Wiring

The 3EM-63T Gen3 uses flat terminals for current measurement and is typically mounted above or below the circuit breaker. Ensure correct phase alignment and secure connections.

		
	Shelly 3EM-63T Gen3	Shelly 3EM-63W Gen3
Size (without wires)	1.22x2.13x1.65 in	0.83x2.13x1.65 in
Wiring	Flat terminals	Color-coded wires
Mounting	Above and Below the circuit breaker	Below the circuit breaker

Image: A visual comparison between Shelly 3EM-63T Gen3 and 3EM-63W Gen3, highlighting their wiring and mounting differences. The 3EM-63T Gen3 features flat terminals and mounts above or below the circuit breaker, while the 3EM-63W Gen3 uses color-coded wires and mounts below the circuit breaker. A detailed wiring diagram for the 3EM-63T is also shown.

4.2 Initial Power-Up and Device Inclusion

1. After professional installation and power restoration, the device will power on.
2. Download the **Shelly Smart Control App** from your device's app store (iOS or Android).
3. Follow the in-app instructions to add your Shelly 3EM-63T Gen3 to your Wi-Fi network and Shelly account. Bluetooth is used for the initial inclusion process.

5. OPERATING INSTRUCTIONS

The Shelly 3EM-63T Gen3 provides comprehensive energy monitoring and management capabilities through the Shelly Smart Control App and various integrations.

5.1 Energy Monitoring



ENERGY METERING TAILORED TO YOUR NEEDS

Smart, compact, and versatile - this energy meter is designed to monitor either three-phase or three independent single-phase circuits, delivering real-time insights and precision.



Image: The Shelly 3EM-63T Gen3 device installed within an electrical panel, demonstrating its compact integration for energy metering.

The device measures voltages from 220-240 V AC and currents up to 63 A per phase. Real-time data is accessible via the Shelly Smart Control App, allowing you to monitor energy consumption across three-phase systems or individual circuits.

5.2 Data Logging

The Shelly 3EM-63T Gen3 includes built-in data storage for up to 7 days at 1-minute intervals. This historical data can be accessed through the Shelly app for detailed analysis of energy usage patterns.

5.3 Energy Management Applications



HOME & BUSINESS ENERGY MANAGEMENT

Get some real time insights to identify high-energy-consuming devices and usage patterns in both home and commercial settings. Plan improvements and reduce overhead costs.



Image: The Shelly 3EM-63T Gen3 depicted in a business environment, illustrating its use for home and business energy management to identify high-energy-consuming devices and optimize usage.

Home Energy Management: Gain insights into appliance or circuit consumption to identify high-usage devices. Support efficient scheduling and enable local automation to reduce costs.

Cost Optimization for Businesses: Track energy use across three circuits to monitor machines, departments, or processes. This helps identify inefficiencies and allocate costs accurately.



SOLAR ENERGY MONITORING

Make sure your solar panels are functioning at peak performance by monitoring both energy production and consumption. Minimize your dependency on the grid by making smarter choices.



Image: The Shelly 3EM-63T Gen3 shown in a solar panel field, representing its capability for solar energy monitoring to track production and consumption.

Solar Energy Monitoring: Ideal for photovoltaic (PV) systems, the device tracks both energy production and consumption, helping to align usage with generation and maximize renewable energy benefits.

5.4 Smart Control App and Integrations

The Shelly Smart Control App allows remote control, notifications for automated events, device configuration, and creation of personalized scenes. The device is compatible with various smart home platforms including Alexa, Google Home, Home Assistant, Smart Things, Apple HomeKit, Homey, and supports MQTT.

6. MAINTENANCE

The Shelly 3EM-63T Gen3 requires minimal maintenance. Ensure the device is kept clean and free from dust. Periodically check for available firmware updates through the Shelly Smart Control App to ensure optimal performance and access to new features.

7. TROUBLESHOOTING

If you encounter issues with your Shelly 3EM-63T Gen3, consider the following:

- **No Power:** Verify that the main power supply is on and all wiring connections are secure.
- **No Wi-Fi Connection:** Check your Wi-Fi router and network settings. Ensure the device is within range of your Wi-Fi signal. Shielded electrical enclosures can sometimes interfere with Wi-Fi signals.
- **Device Unresponsive:** Press the reset button on the device. If the issue persists, try power cycling the device by temporarily disconnecting and reconnecting its power supply.
- **Incorrect Readings:** Ensure the current transformer connections are correctly installed and aligned with the phase wires.

Refer to the LED indicators (Connection, Energy) on the device for status information. Consult the Shelly support resources for more detailed troubleshooting guides.

8. SPECIFICATIONS

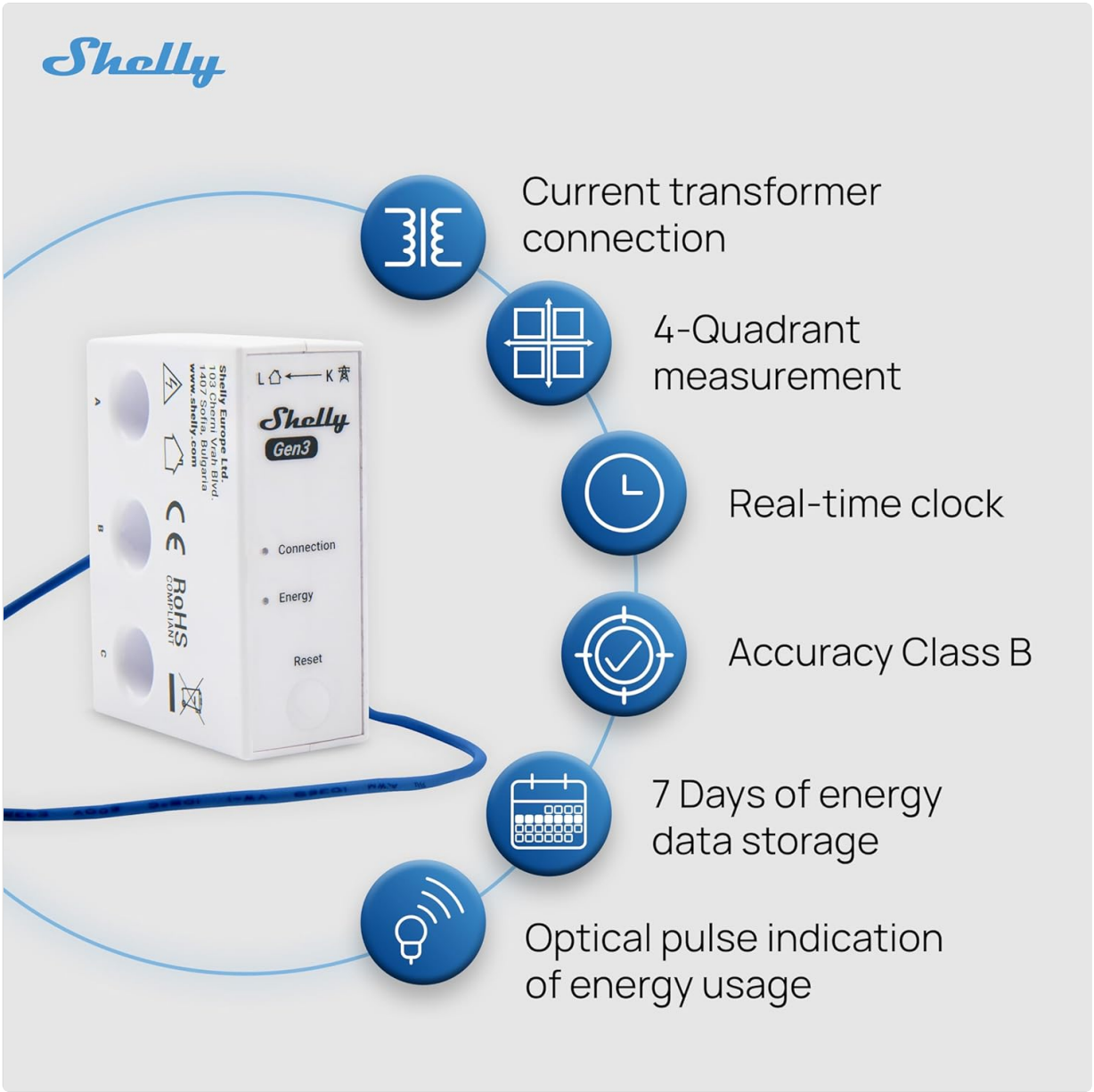


Image: An infographic listing key features of the Shelly 3EM-63T Gen3, including current transformer connection, 4-quadrant measurement, real-time clock, Accuracy Class B, 7 days of energy data storage, and optical pulse indication of energy usage.

Feature	Detail
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Model	3EM-63T Gen3
Input Voltage	220-240 V AC
Max Current per Phase	63 Amps
Measurement Type	3-Phase Energy Meter, 4-Quadrant Measurement
Accuracy Class	Class B
Data Logging	7 days at 1-minute intervals
Connectivity	Wi-Fi, Bluetooth
Chipset	ESP-Shelly-C38F with 8 MB Memory
Matter Support	Version 1.2
Product Dimensions	1.65 x 2.13 x 1.22 inches
Weight	1.83 ounces
Mounting Type	Panel Mount
Item Model Number	3800235261941

9. WARRANTY

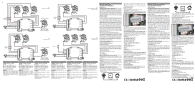
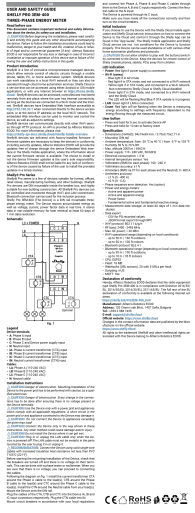
The Shelly 3EM-63T Gen3 comes with a **3-year device warranty** from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects and malfunctions under normal use conditions. It does not cover damage caused by improper installation, misuse, accidents, or unauthorized modifications.

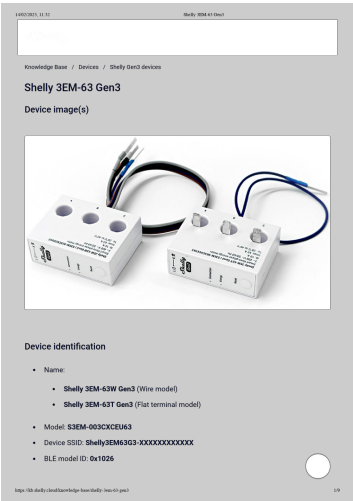
10. SUPPORT

For further assistance, technical support, or to access additional resources, please contact Shelly Customer Service or visit our online support channels.

- **Online Knowledge Base:** Access product specifications, guidelines, and FAQs.
- **Technical Support:** Contact our professional support team for personalized assistance.
- **Community Forums:** Join Facebook Support Groups and the Reddit community to connect with other users and share experiences.
- **Shelly Academy:** Explore video tutorials and webinars for in-depth learning.

Visit the Shelly Support Portal: <https://support.shelly.cloud/en/support/home>

	Shelly 3EM-63 Gen3: Compact Three-Phase Energy Meter User Guide Comprehensive user and safety guide for the Shelly 3EM-63 Gen3, a compact three-phase energy meter for monitoring electricity consumption, voltage, current, and power. Learn about installation, specifications, and features.
	Shelly 3EM: Triple Phase Wi-Fi Energy Meter User Guide Comprehensive user and safety guide for the Shelly 3EM, a triple-phase Wi-Fi energy meter by Allterco Robotics. Learn about installation, features, specifications, and smart home integration.
	Shelly 3EM Triple Phase Wi-Fi Energy Meter: User Guide & Installation Comprehensive user and safety guide for the Shelly 3EM Triple Phase Wi-Fi Energy Meter. Learn about installation, features, specifications, and safety precautions for smart energy monitoring.
	Shelly PRO 3EM 400A WIFI: User Manual and Technical Specifications Comprehensive user manual for the Shelly PRO 3EM 400A WIFI, a 3-phase energy meter. Learn about installation, operation, specifications, and features for smart home energy monitoring.
	Shelly Pro 3EM-400 Three-Phase Energy Meter User and Safety Guide Comprehensive user and safety guide for the Shelly Pro 3EM-400 three-phase energy meter, detailing installation, operation, specifications, and safety precautions by Allterco Robotics EOOD.
	Shelly Pro 3EM Three-Phase Energy Meter User and Safety Guide Comprehensive user and safety guide for the Shelly Pro 3EM three-phase energy meter, covering product introduction, installation instructions, specifications, LED indicators, and safety precautions. This guide is intended for electricians and users involved in the installation and operation of the device.



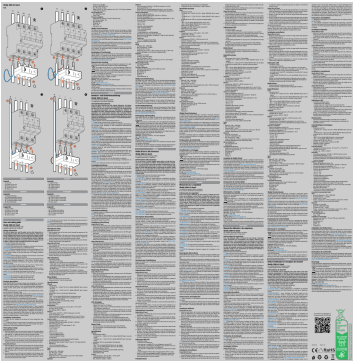
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Shelly 3EM 63 Gen3 shelly 3em 63t gen3 data sheet netxl docs |||
14/02/2025, 11:32 Shelly 3EM-63 Gen3 Knowledge Base / Devices / Shelly Gen3 devices Shelly 3EM-63 Gen3 Device image s Device identification Name: Shelly 3EM-63W Gen3 Wire model Shelly 3EM-63T Gen3 Flat terminal model Model: S3EM-003CXCEU63 Device SSID: Shelly3EM63G3-XXXXXXXXXXXX BLE model ID...
lang:en score:57 filesize: 415.58 K page_count: 8 document date: 2025-02-14



EU Declaration of Conformity for Shelly 3EM-63T Gen3 and Shelly 3EM-63W Gen3

This document outlines the EU Declaration of Conformity for Shelly Europe Ltd.'s Shelly 3EM-63T Gen3 and Shelly 3EM-63W Gen3 compact energy meters. It details compliance with relevant Union harmonization legislation, including EMC, LVD, RED, and RoHS 2.0 directives, along with the specific harmonized standards met.
lang:en score:53 filesize: 287.46 K page_count: 48 document date: 2025-07-22



Shelly 3EM-63 Gen3: Compact Three-Phase Energy Meter User Guide

Comprehensive user and safety guide for the Shelly 3EM-63 Gen3, a compact three-phase energy meter for monitoring electricity consumption, voltage, current, and power. Learn about installation, specifications, and features.
lang:en score:52 filesize: 2.48 M page_count: 4 document date: 2024-11-12

[pdf] Datasheet

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Shelly 3EM-63 Gen3 Knowledge Base / Devices / Shelly Gen3 devices Shelly 3EM-63 Gen3 Device

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terminal model Model: S3EM-003CXCEU63 ||| 14/02/2025, 11:32 Shelly 3EM-63 Gen3 Knowledge Base /

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Gen3 Device image s Device identification Name: Shelly 3EM-63W Gen3 Wire model Shelly 3EM-63T

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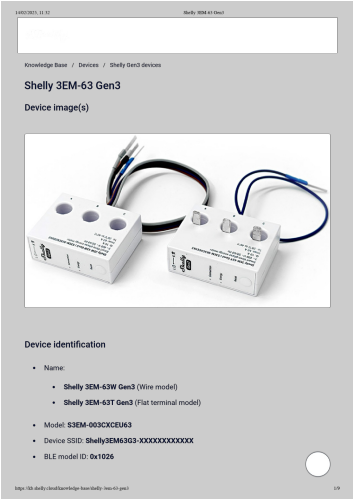
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FarnellHiermit erklärt Shelly Europe Ltd dass die Funkanlage Typ 3EM 63 O LED piscará Vermelho Azul
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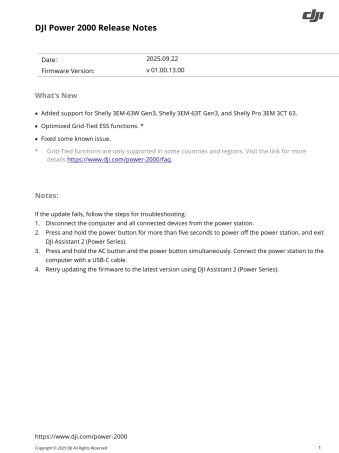
Menge	Wert
Größe (HxWxD)	• 21x54x42 mm (0.83x2.13x1.65 in Shelly 3EM-63W Gen3, ohne Draht) • 21x54x42 mm (1.22x2.13x1.65 in Shelly 3EM-63T Gen3, ohne Draht)
Kabelänge	260 mm (inkl. Flachklemme)
Gewicht	• 58 g / 2.05 oz (Shelly 3EM-63W Gen3, ohne Draht) • 52 g / 1.83 oz (Shelly 3EM-63T Gen3, ohne Draht)
Leuchtdichte	8 mm (3.15 Dioden)
Montage	Oh über oder unter DIN-Schienen-Gehäuse- Leitungen führen
Stell-Material	Plastik
Stell-Farbe	Weiß
Umgebungstemperatur	-20 °C bis 40 °C (-4 °F bis 104 °F)
Feuchte	30 % bis 70 % RH
Max. Höhe	3000 m / 6562 ft
Stromversorgung	230-240 V ~ 50/60 Hz (zwischen LA und N)
Stromverbrauch	1 W
Schutz der Außen	63 A, Stoßstromschmelzenwert 3 B oder C 63 A mit überhöhter Energiebegrenzung (Stufe 3)
Interne Temperatursensoren	Ja
Voltsensor (RMS für jede Phase)	230-240 V ~ 50/60 Hz Genauigkeit 1 %
Genauigkeit des Voltmeters	Genauigkeit 1 %
Anzeige (RMS über integriertes CT für jede Phase)	0-63 A (130 A-Schätzung)
Meßbereich	1 % (0-63 A), 2 % (1-2 A), 5 % (0-1 A) • Aktiv- und reaktive Last • Aktiv- und reaktive Energie • Stromfluss • Grundlegende aktive und grundlegende reaktive Energie
Strom und Energie	
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Datenspeicherung	• Speicherzeitraum: 1 min. Datenspeicherung • CSV für PC exportieren • ZIGBEE Fernwartung über PC
Datenspeicherung	
Wi-Fi	802.11 b/g/n
Protokoll	485 - 2400 Hz
RF Band	

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Menge Gre HxWxD : Wert 21x54x42 mm / 0,83x2,13x1,65 in Shelly 3EM63W Gen3,
ohne Drhte 31x54x42 mm / 1.22x2.13x1,65 in Shelly 3EM63T Gen3, ohne Draht
Kabellänge: Gewicht: 260 mm inkl. Flachklemme 58 g / 2.05 oz Shelly 3EM-63W
Gen3, einschließlich der Drhte 52 g / 1.83 oz Shelly 3EM-63T...

lang:de score:30 filesize: 375.84 K page_count: 2 document date: 2025-02-14



[DJI Power 2000 Release Notes - Firmware Updates](#)

Official release notes for the DJI Power 2000 portable power station, detailing firmware updates, new features, and bug fixes for versions v01.00.13.00, v01.00.12.00, and v01.00.11.00.

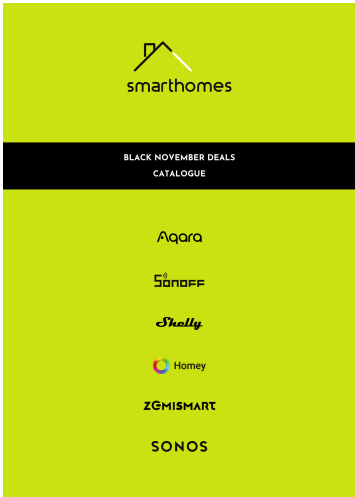
lang:en **score:29** filesize: 66.25 K page_count: 3 document date: 2025-09-22



[Shelly Product Catalogue: Smart Home & Facility Automation](#)

Explore the comprehensive Shelly product catalogue featuring smart home and facility automation devices. Discover relays, dimmers, energy meters, sensors, and control panels designed for modern living.

lang:en **score:29** filesize: 12.05 M page_count: 67 document date: 2025-09-02



[Smarthomes Black November Deals Catalog - Smart Home Devices](#)

Explore exclusive Black November deals on a wide range of smart home devices from top brands like Aqara, Shelly, Sonoff, and Zemismart. Find cameras, lights, hubs, switches, locks, and more.

lang:en **score:25** filesize: 981.2 K page_count: 9 document date: 2025-11-07



[Shelly Produktkatalog: Smart Home und Gebäudeautomatisierung](#)

Entdecken Sie den Shelly Produktkatalog für Smart Home und Gebäudeautomatisierung. Finden Sie eine breite Palette an intelligenten Geräten für Beleuchtung, Energiemanagement, Sicherheit und mehr.

lang:de score:23 filesize: 9.05 M page_count: 63 document date: 2025-06-13



[Shelly Produktkatalog: Smarte Hausautomation und Gebäudeautomatisierung](#)

Entdecken Sie den umfassenden Shelly Produktkatalog für Smart Home und Gebäudeautomatisierung. Finden Sie Schalter, Sensoren, Beleuchtung und mehr für Ihr vernetztes Zuhause.

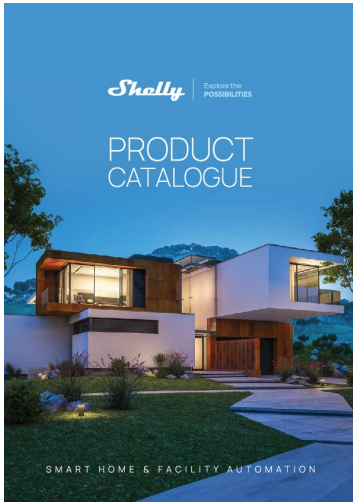
lang:de score:22 filesize: 4.91 M page_count: 62 document date: 2025-05-07



[Shelly Produktkatalog: Smart Home und Gebäudeautomatisierung](#)

Entdecken Sie den Shelly Produktkatalog für Smart Home und Gebäudeautomatisierung. Erfahren Sie mehr über die Integration von Shelly-Geräten in Ihr Zuhause oder Büro, die Steuerung von Beleuchtung, Haushaltsgeräten und mehr.

lang:de score:22 filesize: 9.05 M page_count: 63 document date: 2025-06-13



[Shelly Product Catalogue: Smart Home & Facility Automation](#)

Explore the comprehensive Shelly product catalogue, featuring innovative smart home and facility automation devices. Discover solutions for lighting, energy monitoring, security, and more.

lang:en **score:22** filesize: 8.39 M page_count: 65 document date: 2025-05-23



[Shelly Product Catalogue: Smart Home & Facility Automation Solutions](#)

Explore the comprehensive Shelly product catalogue, featuring innovative smart home and facility automation devices. Discover solutions for lighting control, energy management, security sensors, and more, designed for comfort, safety, and efficiency.

lang:en **score:22** filesize: 4.59 M page_count: 64 document date: 2025-04-30



[Shelly Produktkatalog: Smart Home und Gebäudeautomatisierung](#)

Entdecken Sie den Shelly Produktkatalog für Smart Home und Gebäudeautomatisierung. Finden Sie eine breite Palette an Geräten für Beleuchtung, Energie, Sicherheit und mehr.

lang:de **score:22** filesize: 13.34 M page_count: 65 document date: 2025-09-24



[Shelly Product Catalogue: Smart Home & Facility Automation Solutions](#)

Explore the comprehensive Shelly product catalogue featuring smart home and facility automation devices, including relays, energy meters, lighting controls, sensors, and accessories for seamless integration and enhanced living.

lang:en **score:22** filesize: 4.94 M page_count: 64 document date: 2025-04-24



[Shelly Produktkatalog: Smart Home und Gebäudeautomatisierung](#)

Entdecken Sie den Shelly Produktkatalog für Smart Home und Gebäudeautomatisierung. Finden Sie eine breite Palette an intelligenten Geräten zur Steuerung von Beleuchtung, Energie, Sicherheit und mehr.

lang:de **score:21** filesize: 13.34 M page_count: 65 document date: 2025-09-02



[Shelly Smart Home Automation Product Catalogue | Explore Smart Devices](#)

Discover the full range of Shelly smart home and facility automation devices. Browse our catalogue for smart relays, energy meters, dimmers, sensors, and more for a connected and automated living experience.

lang:en **score:21** filesize: 8.15 M page_count: 65 document date: 2025-05-21