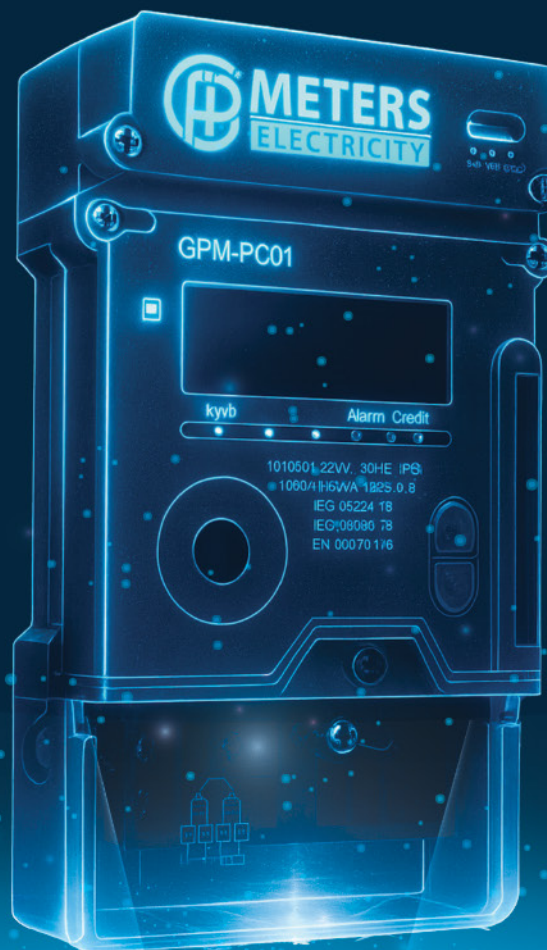




A Subsidiary of Electro Cable Egypt

METERS CATALOGUE

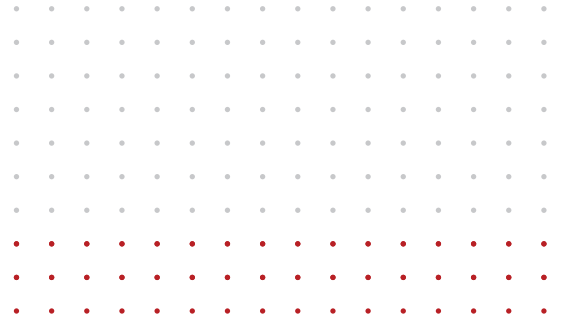




A Subsidiary of Electro Cable Egypt



GPI Meters



Giza Power Industry (GPI) has built its reputation as one of Egypt's most trusted manufacturers of energy and infrastructure solutions, backed by more than forty years of industrial expertise and the solid legacy of Electro Cable Egypt.

As part of GPI's ongoing vision to drive sustainable development, strengthen national infrastructure, and support the region's transition toward digitalized energy systems, GPI Meters was created to deliver advanced metering technologies that bring intelligence, transparency, and reliability to every part of the energy ecosystem.

Today, GPI Meters stands as a strategic pillar within the company's integrated solutions approach designed to meet the evolving demands of utilities, contractors, government authorities, and large-scale developments.



OUR METERS

Our product portfolio covers the full spectrum of residential, commercial, and utility requirements, including:

- ✓ **SINGLE AND THREE-PHASE PREPAID METERS**
- ✓ **SINGLE AND THREE-PHASE SMART METERS**
- ✓ **STREET LIGHTING SMART METERS**
- ✓ **INDIRECT SMART METERS (CT/VT)**

Each product reflects GPI's commitment to engineering excellence, long-term performance, and innovation that creates real value for both providers and end-users.

POWERING THE FUTURE OF SMART ENERGY



PRECISION & RELIABILITY for a Sustainable Energy Future

Our meters are developed through strong global technology partnerships, advanced manufacturing capabilities, and rigorous ISO-certified quality systems that ensure consistency, precision, and environmental responsibility.

Supported by GPI's extensive market presence, strong distributor network, and reliable technical service, GPI Meters is positioned as a dependable partner for organizations aiming to enhance efficiency, reduce energy losses, and modernize their grid operations.



KEY FEATURES & BENEFITS



HIGH MEASUREMENT ACCURACY

Ensures fair billing, improved planning, and reduced operational losses.



SMART GRID-READY TECHNOLOGIES

Remote monitoring, secure communication, and seamless integration with modern utility management systems.



DURABLE & RELIABLE

Designed and tested to withstand challenging environmental and operational conditions.



FLEXIBLE & SCALABLE SOLUTIONS

Suitable for residential, commercial, industrial, and utility applications.

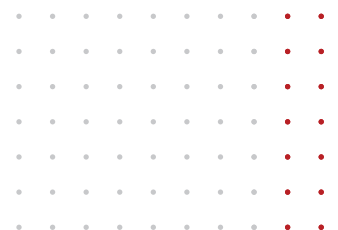


TRUSTED LOCAL MANUFACTURING

Stable supply, competitive pricing, and strong after-sales support backed by GPI's market leadership.



GPI Meters combines innovation, precision, and reliability to empower smarter grids, enhance customer experience, and support a more sustainable and efficient energy future across **EMEA regions**.



GPM-PC01**SINGLE PHASE PREPAID
CONNECTED ENERGY METER**

GENERAL VIEW

GPM-PC01 Single-phase prepaid connected energy meter is a modern, advanced-level instrument designed and manufactured according to the actual power consumption of industrial users by using large-scale integrated circuits, digital sampling processing technology, and SMT process. The product complies with the regulations of the international standard **IEC62052-11: 2003** (Metering equipment) and **EN50470-3**.



KEY FEATURES

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Measures forward/reverse energy | <ul style="list-style-type: none"> Supports multi-step tariff | <ul style="list-style-type: none"> Records monthly extra fees and event logs |
| <ul style="list-style-type: none"> Equipped with an optical port for communication and firmware updates | <ul style="list-style-type: none"> Relay control for overload and tamper protection | <ul style="list-style-type: none"> Low credit alarm via LED blinking |
| <ul style="list-style-type: none"> Friendly mode prevents disconnection during holidays or weekends | <ul style="list-style-type: none"> Card-based recharge system with multiple card types | <ul style="list-style-type: none"> DLMS/COSEM |
| <ul style="list-style-type: none"> NFC | | |



TECHNICAL SPECIFICATIONS

METER TYPE

single-phase, two-wire, direct-connected

ACCURACY CLASS

class 1.0 For active energy measurement

DISPLAY

lcd with arabic interface for user-friendly operation

CURRENT RATING

10(80)A

VOLTAGE RATING

220v (operating range: +15% to -40%)

FREQUENCY

50 HZ ±5%

PROTECTION

IP54-rated enclosure for dust and water resistance

RTC ACCURACY

± 0.5 Seconds per day

PULSE CONSTANT

1000 imp/kwh

DESIGN

compact, wall-mounted structure

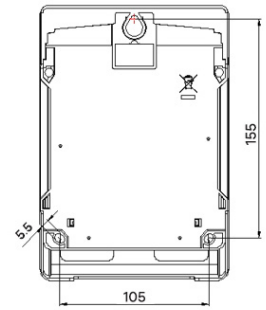
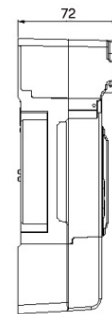
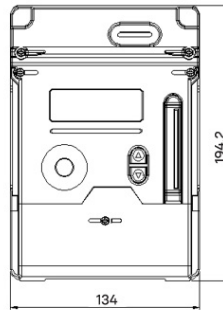
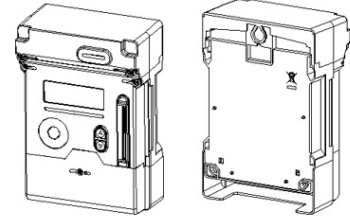
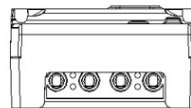
MATERIAL

polycarbonate (base, cover, terminal) fire resistance



Dimensions (L X W X H)

220 mm x 140 mm x 75 mm



DISPLAY CAPABILITIES

- Remaining credit (KWH & EGP).
- Tariff code and rate.
- Monthly consumption history (up to 12 months).
- Real-time voltage, current, power factor.
- Tamper and overload indicators.
- Relay status and meter mode.
- Date, time, and billing cycle data.

SECURITY & TAMPER DETECTION

- Detection and logs:
 - Meter cover opening
 - Terminal cover tampering
 - Current reversal
 - Bypass attempts
 - Overload events
 - Low battery voltage
- Supports AES-128 encryption for secure data exchange



CARD FUNCTIONS

- **USER CARDS**
Account opening, Recharge, Replacement.
- **FUNCTIONAL CARDS**
Tariff update, Tamper clearing, Data collection.
- **ERROR CODES**
Displayed on LCD for quick troubleshooting.



SMART BILLING LOGIC

- Configurable billing time (hourly).
- Stores last 12 months of billing data.
- Auto-save consumption data during power-off.
- Reinitializes readings upon power restoration.



COMMUNICATION INTERFACES

- Optical port (IEC 62056-21)
- Dual RS485 ports with RJ45 terminals enable reliable digital communication and system integration.
- PLC+RF (G3/PRIME V1.4).
- 3G / 4G / NB-IOT.
- DLMS/COSEM compliant.
- Modular plug-and-play communication unit.
- Remote firmware upgrade capability.

GPM-PC03

THREE-PHASE PREPAID CONNECTED METERS



GENERAL VIEW

The **PC03 DC** is a robust, high-accuracy three-phase prepaid smart meter designed for direct connection in low-voltage networks. Engineered for secure energy management and advanced tamper detection, it supports multi-tariff billing, modular communication, and remote recharge. Fully compliant with **IEC & EN standards**, it is ideal for utility companies seeking scalable, secure, and user-friendly metering solutions.



KEY FEATURES

- | | |
|--|---|
| <ul style="list-style-type: none"> • METER TYPE
3-phase, 4-wire, direct-connected | <ul style="list-style-type: none"> • DISPLAY
Industrial-grade LCD, Arabic/English interface, 160° viewing angle |
| <ul style="list-style-type: none"> • MEASUREMENT
Active & reactive energy (four quadrants), demand, instantaneous values | <ul style="list-style-type: none"> • BATTERY BACKUP
RTC supported for 15 years during outages |
| <ul style="list-style-type: none"> • ACCURACY CLASS
Active Energy – Class 0.5, Reactive Energy – Class 1. | <ul style="list-style-type: none"> • PROTECTION
IP54, lightning protection per IEC 1036 |
| <ul style="list-style-type: none"> • CURRENT RATING: 5(100)A | <ul style="list-style-type: none"> • MATERIAL
Fire-resistant polycarbonate (base, cover, terminal) |
| <ul style="list-style-type: none"> • VOLTAGE RATING
3×220/380V (operating range: +30%/–40%) | <ul style="list-style-type: none"> • RELAY
Magnetic latching relay, 120A max, 3 poles (UC3) |
| <ul style="list-style-type: none"> • FREQUENCY: 50 Hz±5% | <ul style="list-style-type: none"> • AUDIBLE ALARM
Built-in buzzer for low credit alerts |
| <ul style="list-style-type: none"> • POWER FACTOR RANGE: Lag – Unity – Lead | |



ADVANCED FUNCTIONS

- Multi-tariff registers.
- Load profile 4 configurable channels
- Instantaneous monitoring of voltage, current, power factor (true rms)
- Event logging with timestamp and push to hes
- Relay control via remote, manual, or threshold logic
- Overcurrent protection with auto-recovery and lockout logic
- Tamper detection:
Cover opening, current reversal, bypass, overload, relay fault and all of this push to hes
- Power quality monitoring:
Over/under voltage, missing phase, imbalance

COMMUNICATION INTERFACES

Optical Port (IEC 62056-21)

Dual RS485 ports with RJ45 terminals enable reliable digital communication and system integration.

PLC+RF (G3/PRIME v1.4)

3G / 4G / NB-IoT

DLMS/COSEM compliant

Modular plug-and-play communication unit

Remote firmware upgrade capability



SECURITY & COMPLIANCE

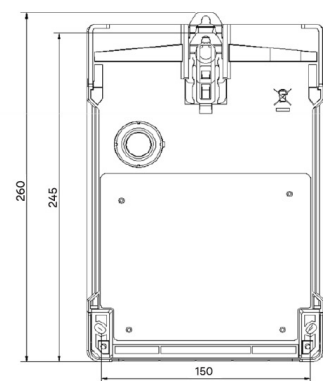
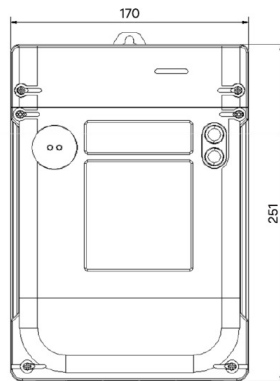
- AES-GCM-128 encryption (ECC256 for public networks)
- Secure token exchange
- Multi-level password access (A1-A4)
- Invocation counter and system title management
- Firmware upgrade without data loss
- Complies with: IEC 62052-11 / IEC 62053-21 / IEC 62053-23 / IEC 62055-41
- IEC 62056 series
- IEC 60529
- IEC 60060 / IEC 60068 (HV, shock, vibration)

PREPAYMENT & TARIFF MANAGEMENT

- STS-compliant token-based recharge
- Supports Multi step tariff structure
- Friendly mode with configurable holidays and intervals
- Real-time balance, overdraft, and consumption tracking
- Remote recharge and tamper-triggered relay control
- Card-based operations: User, Function, Collection

Dimensions (L X W X H)

251 mm x 170 mm x 79 mm



GPM-PP01**SINGLE PHASE
PREPAID ENERGY METER**

GENERAL VIEW

GPM-PP01 Single-phase prepaid energy meter is a modern advanced level instrument designed and manufactured according to the actual power consumption of industrial users by using large-scale integrated circuits, digital sampling processing technology and SMT process. It complies with international standards including **IEC62052-11**, **IEC62053-22**, and **IEC62055-31**.



KEY FEATURES

- | | | |
|---|---|--|
| • Measures forward/reverse energy | • Equipped with optical port for communication and firmware updates | • Friendly mode prevents disconnection during holidays or weekends |
| • Supports Multi step tariff | • Relay control for overload and tamper protection | • Card-based recharge system with multiple card types |
| • Records monthly extra fees and event logs | • Low credit alarm via LED blinking | • DLMS/COSEM |



TECHNICAL SPECIFICATIONS

METER TYPE

single-phase, two-wire, direct-connected

ACCURACY CLASS

class 0.5 For active energy measurement

DISPLAY

lcd with arabic interface for user-friendly operation

CURRENT RATING

10(80)a

VOLTAGE RATING

220v (operating range: +15% to -40%)

FREQUENCY

50 hz±5%

PROTECTION

ip54-rated enclosure for dust and water resistance

RTC ACCURACY

≤0.5 Seconds per day

PULSE CONSTANT

1000 imp/kwh

DESIGN

compact, wall-mounted structure

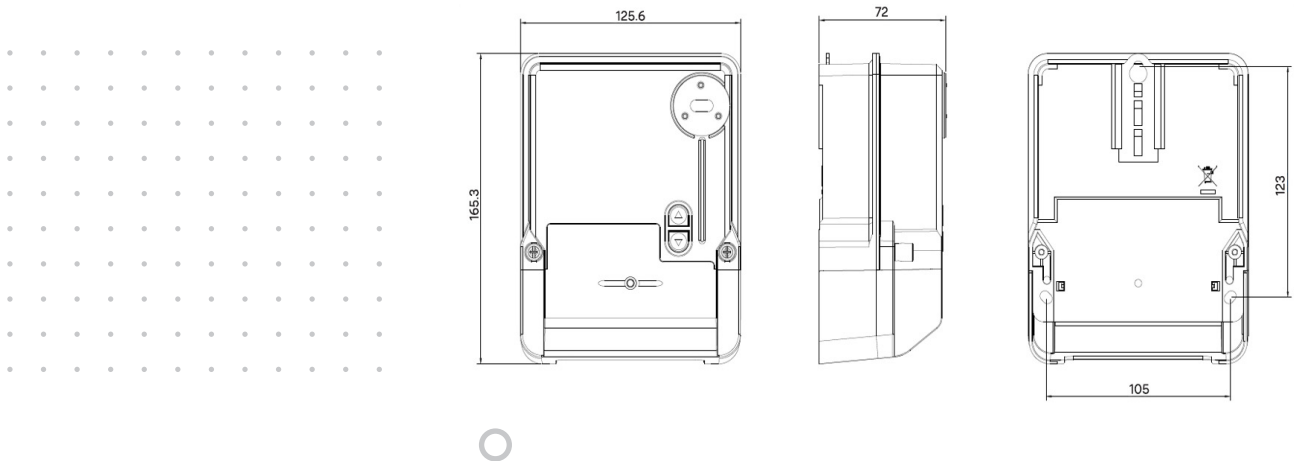
MATERIAL

polycarbonate (base, cover, terminal) fire resistance



Dimensions (L X W X H)

165.5 mm x 125.6 mm x 72 mm



DISPLAY CAPABILITIES

- Remaining credit (kwh & egp)
- Tariff code and rate
- Monthly consumption history (up to 12 months)
- Real-time voltage, current, power factor
- Tamper and overload indicators
- Relay status and meter mode
- Date, time, and billing cycle data

SECURITY & TAMPER DETECTION

- Detection and logs:
 - Meter cover opening
 - Terminal cover tampering
 - Current reversal
 - Bypass attempts
 - Overload events
 - Low battery voltage
- Supports aes-128 encryption for secure data exchange



CARD FUNCTIONS

- **USER CARDS**
account opening, recharge, replacement
- **FUNCTIONAL CARDS**
tariff update, tamper clearing, data collection
- **ERROR CODES**
displayed on lcd for quick troubleshooting



SMART BILLING LOGIC

- Configurable billing time (hourly)
- Stores last 12 months of billing data
- Auto-save consumption data during power-off
- Reinitializes readings upon power restoration



S34U18 CTVT

THREE PHASE SMART INDIRECT MEDIUM VOLTAGE METERS



GENERAL VIEW

The **S34U18 CTVT** is a high-precision, **transformer-operated three-phase smart electricity meter** designed for advanced energy management and regulatory compliance. Built with cutting-edge microelectronics and compliant with **IEC & EN standards**, it offers **robust functionality, modular communication, and long-term reliability**.



KEY FEATURES

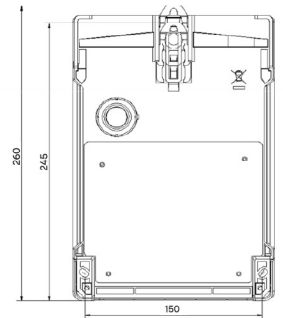
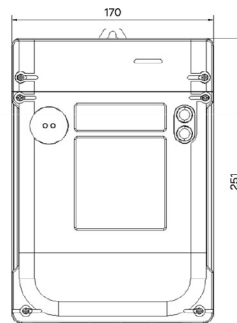
- **MEASUREMENT CAPABILITIES**
Active & reactive energy (four quadrants), demand, instantaneous values
- **ACCURACY CLASS**
Active Energy Class 0.2S, Reactive Energy – Class 2.
- **VOLTAGE RATING**
3×63.5/110V (operating range: +30%/–40%)
- **CURRENT RATING:** 1(6)A
- **FREQUENCY:** 50 Hz±5%
- **POWER FACTOR RANGE**
Lag – Unity – Lead
- **PROTECTION**
IP54, lightning protection (IEC 1036)
- **DISPLAY**
Industrial-grade LCD with Arabic interface, 160° viewing angle
- **BATTERY BACKUP**
RTC supported for 15+ years during outages
- **METER LIFETIME:** >15 years
- **MATERIAL**
Polycarbonate (base, cover, terminal), fire-resistant
- **DIMENSIONS**
Compact wall-mounted design





Dimensions (L X W X H)

251 mm x 170 mm x 79 mm



ADVANCED FUNCTIONS

- **Multi-tariff & TOU registers**
- **Security**
High-level protection with encrypted communication, DLMS/COSEM compliance, and support for Suite 1—upgradable to Suite 2 for enhanced interoperability and future scalability.
- **Load profile 4 Configurable Channels**
- **Instantaneous monitoring of voltage, current, power factor** (True RMS)
- **Tamper detection:** phase-neutral swap, reverse current, magnetic interference
- **Event logging:** power Quality events, Tamper
- **Auxiliary relay control:** remote/manual/disconnect logic
- **Sunrise/Sunset** for street lighting applications
- **Secure firmware upgrade mechanism**
- **ECC256** encryption for public network communication



SMART GRID INTEGRATION

Designed for seamless integration into smart grid environments, the **S34U18 CTVT** supports real-time data exchange, remote diagnostics, and scalable deployment across urban and industrial networks. Its modular communication architecture ensures compatibility with evolving utility protocols, while its secure data handling and event logging enhance transparency and operational control for energy providers.



COMMUNICATION INTERFACES

- Optical Port (IEC 62056-21)
- RS485 (RJ45)
- PLC+RF (G3/PRIME v1.4)
- 3G / 4G / NB-IoT
- DLMS/COSEM compliant
- Local & remote firmware upgrade support
- Modular plug-and-play communication unit



COMPLIANCE & STANDARDS

- IEC 62052-11 / IEC 62053-22 / IEC 62053-23
- IEC 62056 series
- IEC 60529
- IEC 60060 / IEC 60068 (HV, shock, vibration)
- IEC 62055
- BS EN50470-1 / BS EN61268
- DLMS/COSEM compliant





GENERAL VIEW

The **S34U18 CT** is a high-precision, transformer-operated three-phase indirect smart electricity meter designed for advanced energy management and regulatory compliance. Built with cutting-edge microelectronics and compliant with EN & IEC standards, it offers robust functionality, modular communication, and long-term reliability.



KEY FEATURES

- **METER TYPE**
Three-phase, four-wire (3P4W)
- **MEASUREMENT CAPABILITIES:**
Active & reactive energy (four quadrants), demand, instantaneous values
- **ACCURACY CLASS**
Active Energy – Class 0.5S,
Reactive Energy – Class 2.
- **VOLTAGE RATING**
3×220/380V (operating range:
+30%/–40%)
- **CURRENT RATING:** 1(6)A
- **FREQUENCY:** 50 Hz±5%
- **POWER FACTOR RANGE**
Lag – Unity – Lead
- **PROTECTION**
IP54, lightning protection
(IEC 1036)
- **DISPLAY**
Industrial-grade LCD with
English & Arabic interface, 160°
viewing angle, Backlight screen
- **BATTERY BACKUP**
RTC supported for 15 years
during outages
- **METER LIFETIME:** >15 years
- **MATERIAL**
Polycarbonate (base, cover,
terminal), fire-resistant
- **DIMENSIONS**
Compact wall-mounted design



ADVANCED FUNCTIONS

SECURITY

High-level Security with encrypted communication, DLMS/COSEM compliance, and support for Suite 1–upgradable to Suite 2 for enhanced

interoperability and future scalability.

Multi-tariff & TOU registers

Load profile 4 Configurable Channels

Instantaneous monitoring of voltage, current, and power factor (true RMS)

TAMPER DETECTION

phase-neutral swap, reverse current, magnetic interference, Cover Opening

EVENT LOGGING

power Quality events, Tamper

Auxiliary relay control: remote/manual/disconnect logic

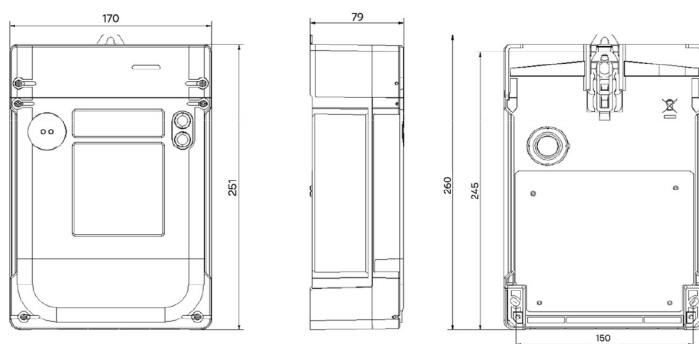
Sunrise/Sunset, Solar time (optional) automation for street lighting applications

Secure firmware upgrade mechanism



Dimensions (L X W X H)

251 mm x 170 mm x 79 mm



COMPLIANCE & STANDARDS

- DLMS/COSEM compliant
- IEC 62052-11 / IEC 62053-22 / IEC 62053-23
- IEC 62056 series
- IEC 60529
- IEC 60060 / IEC 60068
- IEC 62055
- BS EN50470-1 / BS EN61268



SMART GRID INTEGRATION

Designed for seamless integration into smart grid environments, the S34U18 CT supports real-time data exchange, remote diagnostics, and scalable deployment across urban and industrial networks. Its modular communication architecture ensures compatibility with evolving utility protocols, while its secure data handling and event logging enhance transparency and operational control for energy providers.



COMMUNICATION INTERFACES

- Optical Port
- Dual RS485 ports with RJ45 terminals enable reliable digital communication and system integration.
- PLC+RF (G3/PRIME v1.4)
- 3G / 4G / NB-IoT
- DLMS/COSEM compliant
- Local & remote firmware upgrade support
- Modular plug-and-play communication unit



S34U18**THREE-PHASE
SMART DC METERS**

GENERAL VIEW

The **S34U18** is a three-phase smart electricity meter designed for high-precision energy measurement and advanced grid integration. Built with cutting-edge microelectronics and SMT technology, it complies with international standards including **IEC 62052-11, IEC 62053-22/23, and DLMS/COSEM protocols.**



KEY FEATURES

- Measurement of active/reactive energy (Import/export)
- Maximum demand tracking with historical logs
- Multi-tariff support with up to 8 configurable rates
- Tamper detection: cover opening, magnetic interference, current reversal
- Load profile recording: voltage, current, power, and energy Level
- Remote & local firmware upgrades
- Relay control via manual, remote, or automatic logic
- Event logging for power quality, disconnection, and tamper events



TECHNICAL SPECIFICATIONS

METER TYPE

3-phase, 4-wire, direct connected

ACCURACY CLASS

Class 0.5S (Active), Class 2 (Reactive)

DISPLAY

Industrial-grade LCD with Arabic/English interface, 160° viewing angle, Backlight screen

CURRENT RATING: 5(100)A

VOLTAGE RATING

3×220/380V (operating range: +30%/-40%)

FREQUENCY: 50 Hz±5%

RELAY

Magnetic latching relay, 120A max, 3 poles (UC3)

POWER FACTOR RANGE: Lag – Unity – Lead

PROTECTION

IP54, with lightning protection per IEC 1036

BATTERY BACKUP

RTC supported for 15 years during outages

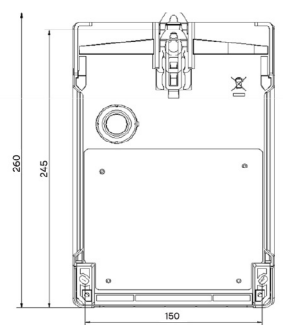
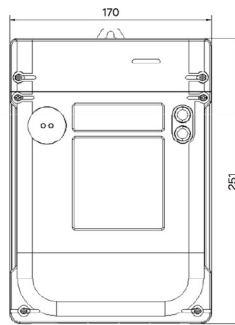
COMMUNICATION

Optical port, RS485 (RJ45), PLC+RF, G3/PRIME, 3G/4G/NB-IoT



Dimensions (L X W X H)

251 mm x 170 mm x 79 mm



DISPLAY MODES

- Auto mode
Auto scroll display of key metrics
- Manual mode
Scroll through detailed readings
- Test mode
Diagnostic and accuracy testing
- Sleep mode (optional)
Energy-saving display standby

SECURITY & RELIABILITY

- Cyberattack detection and logging
- High-level Security with encrypted communication, DLMS/COSEM compliance, and support for Suite 1—upgradable to Suite 2 for enhanced interoperability and future scalability.



OPTIONAL FEATURE STREET LIGHT CONTROL

Sunrise/sunset relay disconnect/connect based on astronomical calculation.



COMMUNICATION INTERFACES

- **OPTICAL PORT**
Local programming and data retrieval
- **REMOTE MODULE**
plug-in unit for wan connectivity (TCP/IP)
- Dual RS485 ports with RJ45 terminals enable reliable digital communication and system integration



S12U16**SINGLE PHASE SMART
STS PREPAID ELECTRIC METER**

GENERAL VIEW

The **S12U16** is a high-performance single-phase smart prepaid meter designed for residential and commercial applications. Built with advanced microelectronics and compliant with EN, IEC and STS standards, it supports secure token-based recharging, multi-tariff billing, and real-time monitoring. Its modular communication and anti-tamper features make it ideal for modern energy infrastructure and utility-grade deployments.



KEY FEATURES

- **METER TYPE**
Single-phase, 2-wire, direct-connected
- **ACCURACY CLASS**
Active Energy: Class 1.0, Reactive Energy: Class 2.0
- **VOLTAGE RATING**
220 V
(operating range: +15%/-40%)
- **CURRENT RATING**
5(80)A
- **FREQUENCY**
50 Hz±5%
- **PULSE CONSTANT**
1000 imp/kWh & 1000 imp/kVARh
- **PROTECTION**
IP54, Class II insulation, surge protection up to 4kV, Lightning Protection
- **DISPLAY**
Industrial-grade LCD with Arabic/English interface
- **BATTERY BACKUP**
Internal lithium battery with 15-year life
- **METER LIFETIME**
>15 years
- **MATERIAL**
Polycarbonate + 20% GF, fire-resistant casing



ADVANCED FUNCTIONS

Real-time monitoring of voltage, current, and power factor (true RMS)

Instantaneous & cumulative energy registers

TAMPER DETECTION

cover open, magnetic interference, reverse current, bypass, overload

Event logging with timestamp, Push to System

Load profile 4 Configurable Channels

RELAY CONTROL

remote/manual/disconnect logic

Self-diagnostics & alarm filtering

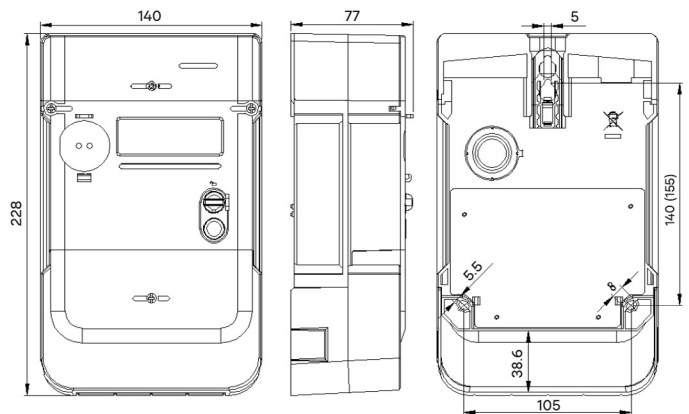
Daylight saving time adjustment & calendar scheduling

Dual-source metering (EB/DG) for residential complexes



Dimensions (L X W X H)

250 mm x 140 mm x 82 mm



SECURITY & COMPLIANCE

- AES-GCM-128 encryption, ECC256 for public networks
- DLMS/COSEM compliant
- Multi-level password access (A1–A4)
- Secure token exchange per IEC 62055-41
- Event filtering, tamper latching, and programmable thresholds
- Complies with: IEC 62052-11 / IEC 62053-21 / IEC 62053-24 / IEC 62055-41
- IEC 62056 series (data exchange)
- EN 50470-1 / EN 50470-3
- ISO 9001 / ISO 14000



PREPAYMENT & TARIFF MANAGEMENT

- STS-Compliant Token Recharge
- Up to 8 Tariff Rates with 12 time periods
- TOU & Step Tariff Support
- Emergency Overdraft & Friendly Mode
- Balance & Overdraft Alarms (Visual & Audible)
- Monthly & Daily Settlement with 12-period history
- **TOKEN TYPES**
Recharge, Key Change, Tariff Update, Event Clear, Friendly Mode, Holiday Mode



COMMUNICATION INTERFACES

- Near-Infrared
- RS485 (DLMS/COSEM HDLC)
- GPRS/3G/4G/NB-IoT (Modular)
- Ethernet & Optical Fiber (Optional)
- IDIS Certified for interoperability
- Remote firmware upgrade & event push to HES



S34U18

THREE-PHASE STS SMART PREPAID ELECTRIC METER



GENERAL VIEW

The **S34U18** is a robust, high-precision three-phase smart prepaid meter designed for direct connection in low-voltage networks. Engineered for secure energy management, advanced tamper detection, and modular communication, it supports **multi-tariff billing, remote recharge, and real-time diagnostics**. Fully compliant with **IEC and STS standards**, it is ideal for utility-grade deployments across residential, commercial, and industrial sectors.



KEY FEATURES

- **METER TYPE**
3-phase, 4-wire,
direct-connected
- **ACCURACY CLASS**
Active Energy – Class 0.5,
Reactive Energy – Class 2.0
- **VOLTAGE RATING**
3×220/380V
(operating range: +30%/–40%)
- **CURRENT RATING:** 5(100)A
- **FREQUENCY:** 50 Hz±5%
- **POWER FACTOR RANGE**
Lag – Unity – Lead
- **DISPLAY**
Industrial-grade LCD with
Arabic/English interface, 160°
viewing angle
- **BATTERY BACKUP**
RTC supported for 15 years
during outages
- **PROTECTION**
IP54, lightning protection
per IEC 1036
- **MATERIAL**
Fire-resistant polycarbonate
(base, cover, terminal)
- **RELAY**
Magnetic latching relay, 120A
max, 3 poles (UC3)
- **AUDIBLE ALARM**
Built-in buzzer for low credit
alerts
- **METER LIFETIME:**
>15 years (MTTF)



ADVANCED FUNCTIONS

Real-time monitoring of voltage, current,
and power factor

Instantaneous & cumulative energy registers

TAMPER DETECTION

cover open, magnetic interference, reverse current,
bypass, overload

Event logging with timestamp

Load profile recording 4 Configurable Channels

RELAY CONTROL

remote/manual/disconnect logic

Self-diagnostics & alarm filtering

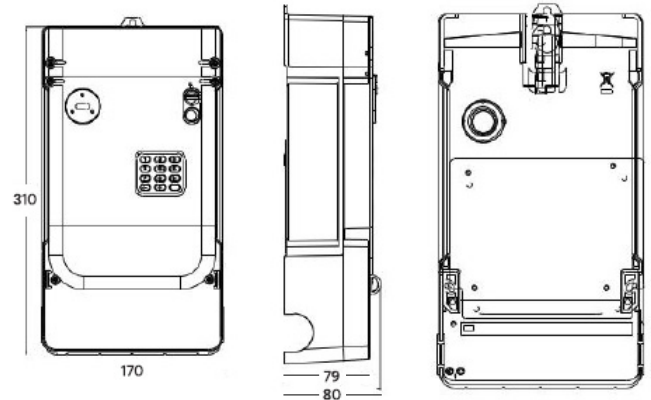
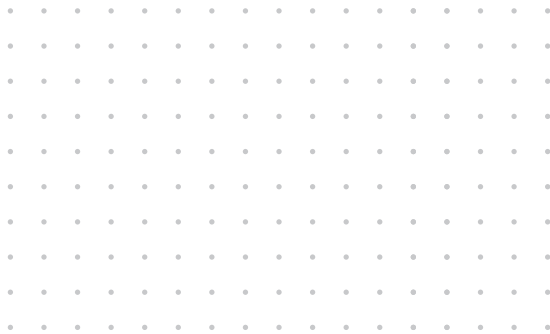
Daylight saving time adjustment & calendar
scheduling

Dual-source metering (EB/DG) for residential
complexes



Dimensions (L X W X H)

250 mm x 170 mm x 79 mm



SECURITY & COMPLIANCE

- AES-GCM-128 encryption, ECC256 for public networks
- DLMS/COSEM compliant
- Multi-level password access (A1–A4)
- Secure token exchange per IEC 62055-41
- Event filtering, tamper latching, and programmable thresholds
- Complies with: IEC 62052-11 / IEC 62053-21 / IEC 62053-24 / IEC 62055-41
- IEC 62056 series (data exchange)
- EN 50470-1 / EN 50470-3
- ISO 9001 / ISO 14000



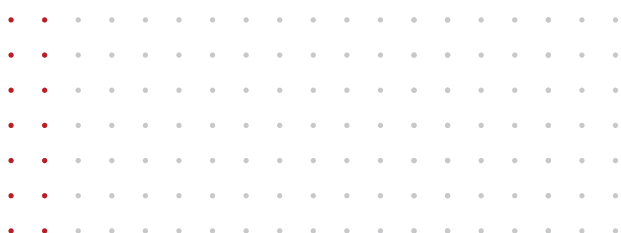
PREPAYMENT & TARIFF MANAGEMENT

- STS-Compliant Token Recharge
- Up to 8 Tariff Rates with 12 time periods
- TOU & Step Tariff Support
- Emergency Overdraft & Friendly Mode
- Balance & Overdraft Alarms (Visual & Audible)
- Monthly & Daily Settlement with 12-period history
- **TOKEN TYPES**
Recharge, Key Change, Tariff Update, Event Clear, Friendly Mode, Holiday Mode



COMMUNICATION INTERFACES

- Near-Infrared
- RS485 (DLMS/COSEM HDLC)
- GPRS/3G/4G/NB-IoT (Modular)
- Ethernet & Optical Fiber (Optional)
- IDIS Certified for interoperability
- Remote firmware upgrade & event push to HES



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