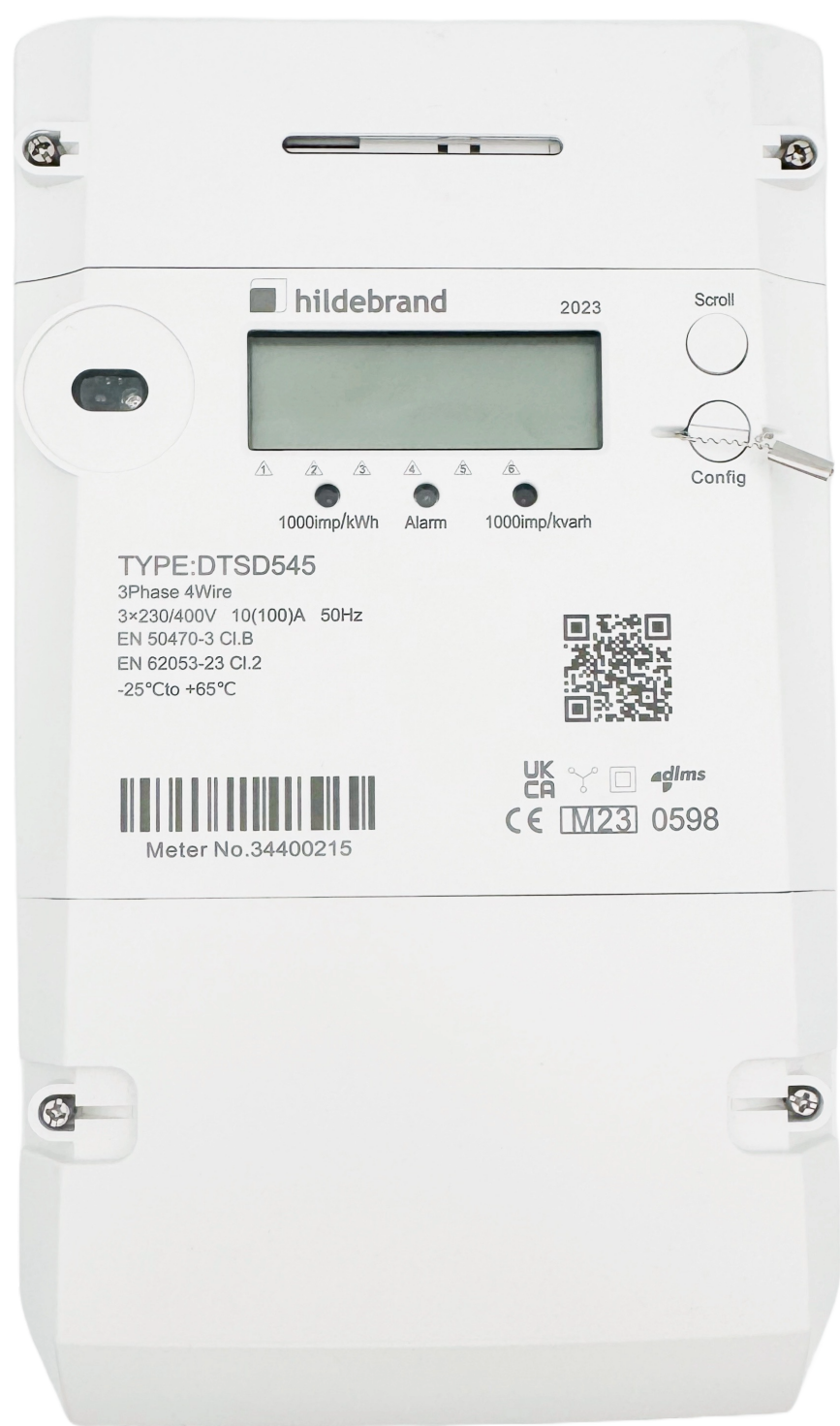


Glow 545

Three Phase Meter



MID Compliant

Wi-Fi / NB-IoT

A submetering solution that offers an easy way to access electricity data for billing and consumption insights.

The Glow Meter functions like a smart meter with simple installation and provides data to the Glow ecosystem while supporting local management through mobile applications.

Applications

- Programmable and customisable meter
- Real-time electricity monitoring
- Integration with a range of submetering products into one cohesive solution
- Electricity billing for large scale properties in both residential and non-domestic settings

Processing and Memory

- 32-bit micro-controller and 4MB flash memory to capture granular data
- Espressif 160MHz Dual core processing unit
- Software embedded with full traceability of source code, increasing security and performance

Communication

- Integrated WiFi, Bluetooth, and optional NB-IoT or 2G
- Setup available through mobile application via Bluetooth or online when connected to WiFi

Features

- Available as direct current and current transformer
- LCD Display for manual checks
- Time synchronization
- Battery-powered internal clock
- Custom Glow Communications board
- Easy installation with local or remote commissioning support
- Remote view via secure internet connection
- Automatic firmware updates with failsafe mode
- Bundled NB-IoT or 2G with global connectivity via eSIM
- Alerts for disconnection and communication errors
- Local and remote logging of events
- Tamperproofing with sealable screws



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Glow545_DataSheet_v3.pdf



Technical Information

Type	CT Meter	DT Meter
Active Accuracy	Class 0.5S (IEC 62053-22)	Class 1 (IEC 62053-21)
Active Accuracy	Class 2 (IEC 62053-23)	Class 2 (IEC 62053-23)
Rated Voltage	3X230/ 400V	3x230/ 400V
Specified Operation Range	0.5Un- 1.2Un	0.5Un- 1.2Un
Rated Current	1(6)A 5(6)A 5(10)A	5(100)A 10(100)A 20(160)A
Starting Current	0.001Ib	0.004Ib
Pulse Constant	1000imp/kWh 1000imp/kvarh (configurable)	1000imp/kWh 1000imp/kvarh (configurable)

Communications

Wi-Fi

- 2.4 GHz 802.11 b/g/n
- Network time via NTP
- WPA2
- TLS 1.2
- Secure over the air (OTA) software upgrades
- Device configuration and management via online control panel
- Offline monitoring and alerts

GPRS (2G)

- Global connectivity
- External antenna
- 85.6 - 107 kbps

LTE-M and NB-IoT

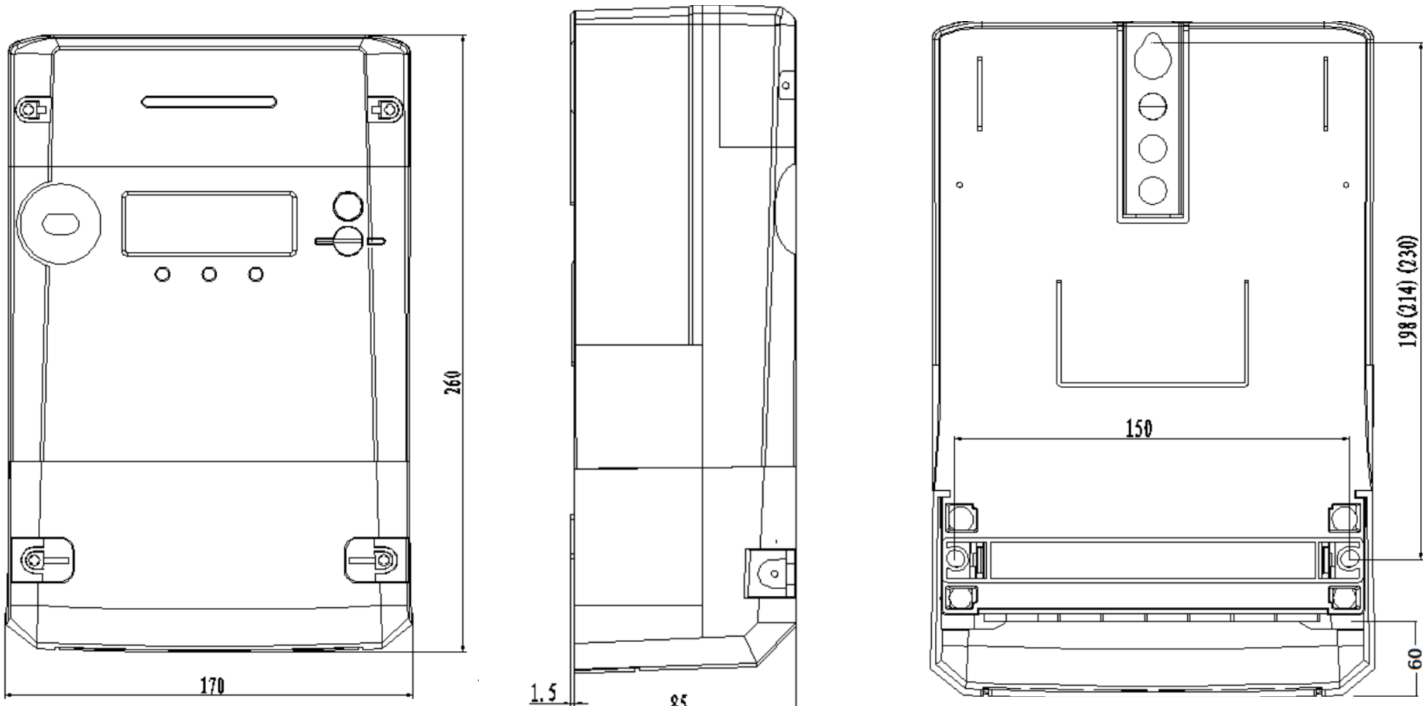
- Global connectivity
- External antenna
- Cat M1: B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 26/ 27/ 28/ 66/ 85
- Cat NB2: B1/ 2/ 3/ 4/ 5/ 8/ 12/ 13/ 18/ 19/ 20/ 25/ 28/ 66/ 71/ 85

Bluetooth

- BLE 5 Protocol
- Radio output: +3dBm maximum
- Secure configuration, firmware updates and AMR

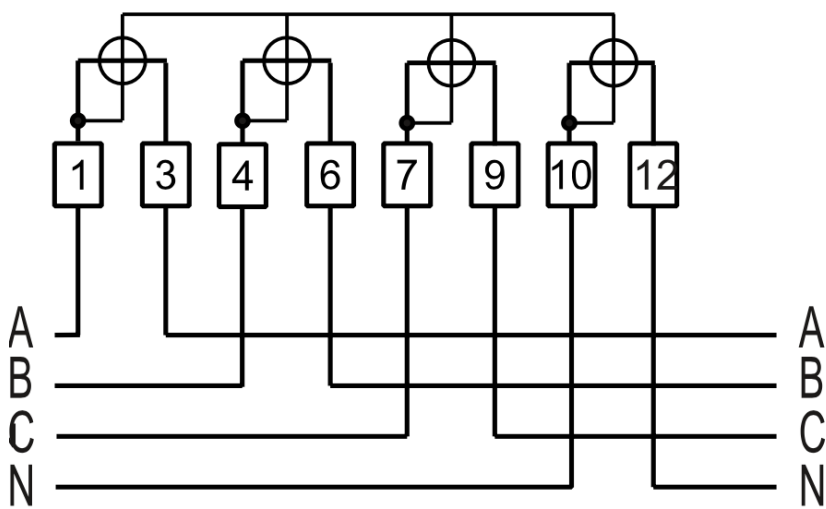
Physical Dimensions (mm)

L	260
W	170
H	85
Weight (kg)	2.2



Connection Diagrams

DT Connection Type



CT Connection Type

