

ELGAMA DC12

PLC data concentrator



- Collection of metering data by means of PLC network;
- Data Storage in Non-volatile memory
- Support of DLMS/COSEM IEC 62056 protocol, High-level security (encryption and authentication)
- Swappable PLC modem module PRIME or G3 (optional)
- PLC network diagnostics
- Meter data reading and control functions by means of operational and maintenance SW
- Communication interfaces to meters: PLC and RS485
- Multiple communication interfaces: Ethernet, USB Host, RS232, 2xRS485, GPRS/3G/LTE
- Secure WAN/LAN communication with encryption
- Hot swappable communication modules for GPRS/3G/LTE
- Remote SW update for DCU and meters
- NTP client for automatic time synchronization
- Comfortable LCD for easy DCU configuration and maintenance
- Immunity against magnetic and HF electromagnetic fields
- Integrated 4 tariff balance meter



Technical Specification

ELGAMA DC12

PLC communication

- PRIME PLC (ITU-T G.9904) version 1.3.6 (upgradable to 1.4)
- G3-PLC (ITU-T G.9903) (optional)

Balance meter

- | | |
|--|---------------------------------------|
| • Accuracy class for active energy | 0,5s (IEC 62053-22) |
| • Accuracy class for reactive energy | 2 (IEC 62053-23) |
| • Reference voltage | 3×230/400 V |
| • Rated In (maximum I _{max}) current | 1(6)A |
| • Starting current, % from I _n | 0.1% |
| • Meter constant, imp/kWh, imp/kvarh | 6400 |
| • Number of energy tariffs | 4 |
| • Immunity against permanent magnetic fields | Max 300 mT |
| • Immunity against electromagnetic HF fields | 10V/m(with load), 30V/m(without load) |

Ratings

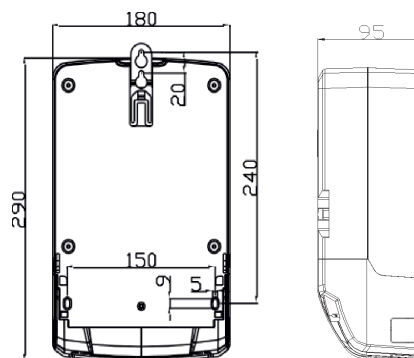
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|-----------------------------|---|
| • Power supply | 3×230/400 V ± 20% , 50Hz |
| • Power consumption | < 5W (< 10 VA) |
| • Temperature ranges: | |
| - Specified operating range | -25°C ... +60°C |
| - Limit range of operation | -40°C ... +70°C (LCD operational -25°C ... +70°C) |
| • Surge protection | 6kV, 1,2/50 μs |

Internal real-time clock

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|-----------------------|---------------------------|
| • Accuracy | < 0,5s/24 h (T=23 °C), |
| • Backup power supply | Li-ion battery (10 years) |

Case & Dimensions

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|--------------------|-----------------------------|
| • Case | UV stabilized polycarbonate |
| • Insulation | Protective class II |
| • Protection class | IP53 |
| • Dimensions, mm | 290 × 180 × 95 |
| • Weight, kg | 3,0 kg |



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