ELMARK®

The Brand of Electricity

THREE PHASE PREPAID AND POST-PAID ENERGY METER 10(80)A, ADL300-EYZ/F

GENERAL INFORMATION »

ADL300-EYZ/F is three phase pre-paid meters with intro-control is used for calculating the three phase active energy. The multi-tariff meter has functions of pre-paid, load controlling and RS485 communication meet the related technical requirements of electronic power meter.

TECHNICAL SPECIFICATION SHEET

ELMARK
The Brand of Electricity

FEATURES

- ∴ Measurement of electrical parameters: kWh; voltage; current; active power (positive and negative);
- ∴ reactive power (positive and negative); apparent power; power factor and frequency
- ∴ Pre-paid mode: Through RS485 communication prepaid recharge, data encryption.
- ∴ Power input type: IC card
- ∴ Number of tariffs: 4 tariff rates, 14-time intervals by day.
- ∴ LED display: 8 bits section
- ∴ Control: Built-in high-capacity sub-holding relay to achieve load on-off control
- ∴ Communication interface: RS485
- ∴ Communication protocol: MODBUS-RTUPROTECTIONS

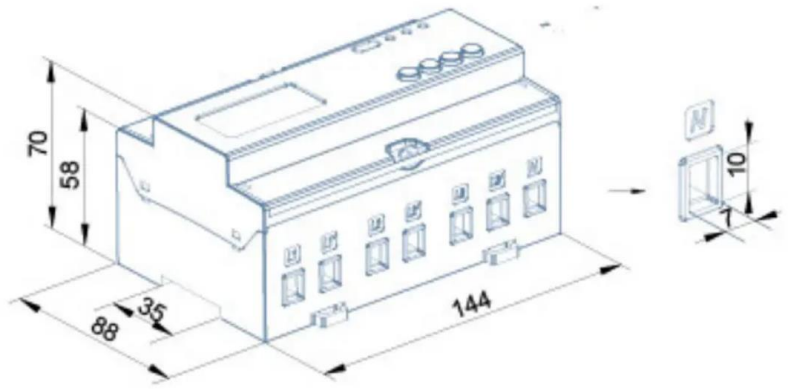
TECHNICAL DATA»

- ∴ Rated voltage: 3×220/380V- 465V AC
- ∴ Frequency: 45-65Hz
- ∴ Nominal input current: 10(80)A
- ∴ Power consumption: < 4VA
- ∴ kWh Class: 1
- ∴ Clock accuracy: Error ≤ 0.5s/d
- ∴ Width of pulse: 80±20ms
- ∴ Pulse constant: 6400imp/kWh, 400 imp/kWh
- ∴ Communication interface: RS485(A+, B-)
- ∴ Pre-paid system application: ACREL-RFMS
- ∴ Size LxWxH: 144x70x88 mm
- ∴ Working temperature: from -25 to 55°C
- ∴ Relative humidity: ≤95%

TECHNICAL SPECIFICATION SHEET

ELMARK
The Brand of Electricity

Catalogue number	Type	Input current	Input voltage (V)	Packing/Box (pcs)	Dimensions (mm)
50223	ADL300-EYZ/F	10A(80A	3×220/380V	1/84	144x70x88



OPERATE DETAILS»

The power is input into the meter through RF card. When the available power in the meter de creases to zero, the meter will automatically cut off the power supply.

Only after the new available power is input through the RF card, the meter can resume power supply.

After the user pays each time, the computer system of the power supply management department can calculate the value of the available electricity that should be recharged to the electricity meter this time according to the user's zero-crossing electricity and the remaining available electricity in the current electricity meter.

• Each end user will have an RF card, that RF card will be used for charging and depositing.

• After finishing the re-charging, the end-user or managers need to use an RF card to touch KWH meter.

• Prepaid meter electricity price can be set by RF card. Officer can record the electricity price and

multi-tariff price inside the RF card. Once the RF card touches the KWH meter itself, thisinformation will be recorded into the prepaid meter.

RF CARD FUNCTIONS»

RF cards will not only be used for end-user but also will be used for managers. Managers can use one blank RF card and give that card a specified function by the Acrel-RFMS system. The most common functions are:

• Charging & Deposit

• Replacement for the Lost card

- Energy Consumption Reset
- Forced opening and closing circuit

ACCESSORIES»

RF CARD READER FOR PREPAID AND POST-PAID KWH METERS

Catalogue number:
50225

RF CARD

Catalogue number:
50224

NOTE: Comes with 1.5m length USB cable