

Liberty 170

Single-phase, dual-register, switched electricity meter



Innovative supply
source detection



Bifurcation of
charges



Interactive
mobile app



Pay-as-you-go and
accounting mode

Liberty 170 is an intelligent, single-phase switched electricity meter that provides information of both mains and DG electricity consumption separately, which makes it an ideal sub-metering solution. It uses a unique and innovative technique to detect the supply source, without employing any wiring and additional hardware. It is developed on a highly reliable and secure metering platform which follows the international ISO 27001 standard.

Liberty 170 has a dual-mode capability, pay-as-you-go and accounting mode. The accounting mode brings awareness to consumer for the cost of electricity consumption in non-pre-payment mode. The interactive, user-friendly mobile app and in-home unit are the part of solution wherein user can see energy usage and consumption pattern in monetary terms for monitoring and better budgeting.

The advanced vending system has such a flexible architecture which facilitates the integration options with POS terminals, electricity supplier's web portals, e-wallets, kiosks and mobile apps.

The Liberty system provides peace of mind to electricity suppliers by ensuring completeness of revenue through operational efficiency. It is simple to manage and enables the electricity supplier to provide hassle-free consumer services.



Application

- Single and dual supply source metering (Mains and DG)
- Public and private industrial townships
- Gated societies/Residential apartments
- Small and medium commercial establishments
- Government establishments
- Sub-metering nodes

Benefits

- Mains and DG energy recording through a single asset without any need of additional wiring and hardware, for supply source detection
- Effective budgeting of mains and DG energy through monetary consumption displays in Prepay and accounting mode
- Increased transparency and consumer satisfaction with detailed bifurcation of other charges (common area, maintenance, etc.)
- Sanction load adherence with load-limiting capability with each electricity meter for both mains and DG
- Upfront revenue collection and revenue assurance for electricity suppliers

Features

- Intuitive, user-friendly, eight-digit display
- Provision to see default displays and perform meter reading even when no supply is available to meter
- Capacitive phone-style touchpad to navigate between various display parameters
- Better environmental protection (IP54)
- Ease of disconnection / settlement mechanism
- Emergency credit and friendly credit hours/days facility to help consumers manage their account without any inconvenience
- Slab and Time-of-use (ToU) tariff support, ToU with customisable seasons and day definition
- Time based load limiting feature for better load management and to avoid misuse of electricity



Technical specifications

Electrical

Connection type	Direct connected
Wiring configuration	1-phase 2-wire
Voltage reference	240/230 V (L-N)
Voltage variation	-40% to +30%
Current range	5-60 A
Accuracy	Class 1.0
Frequency	50 Hz ±5%

Compliance

Standards	IS 13779, IS 15884, IS 15959
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Mechanical

Dimensions (W x H x D)	~ 150 mm x 202 mm x 66.5 mm [with extended terminal cover]
Weight	~ 0.95 kg, 1.05 kg (with Freedom Terminal Adaptor)
Enclosure	Engineering plastic
Sealing provision	Sealed for life, additional sealing provision at meter cover and terminal cover

Environmental

Ingress protection	IP 54
Temperature	-10 °C to +60 °C (operating) -25 °C to +70 °C (storage)
Humidity	95%, non-condensing

Features

Tariff	Up to 8 rates (slab or time-of-use) *
Maximum demand register	Active and apparent energy for both Mains and DG *
Load survey	>250 parameter days with 30-minute integration period and 7 parameters
Energy supported	13 energy parameters (factory configurable) *
Histories	12 historical sets of values
Reading data	Details for all the energy charges for all 12 histories

* Separate registers for mains and DG energy

Communications

Optical port for local communications	,
-	BLE comms enable remote access for
-	Data collection
-	Consumer mobile App
-	Consumer IHD

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