



Three Phase Prepayment Meter Atria



- Complying to IS15884
- Prepaid electricity distribution with simple numeric codes for recharge
- Dual source metering: separate energy registers and tariffs for utility (EB) and generator (DG) supply
- Current load cost and number of days left for usage shown on display
- Programmable friendly hours/days, holidays, slab/time-of-day tariff structure
- Relays provided for disconnection in all phases
- Optional consumer interface unit (CIU) available with USB dongle token carrier for recharging

Specifications

Connection	3 Phase 4 Wire
Standards Applicable	IS 15884
Accuracy Class	CI 1.0
Rated Voltage	3 x 240V (P-N)
Voltage Variation	-40% to +30%
Current Rating	10-60 A 20-80 A
Starting Current	0.2% of basic current
Accuracy up to	120% of maximum current
Frequency	50Hz
Frequency Variation	-5% to +5%
Power Consumption	As per IS 15884
Operating Temperature	-10°C to +55°C
Ingress Protection	IP 51

Supported parameters (As per customer requirement)

Instantaneous	Phase wise voltages, currents, System PF, Active power, reactive power and apparent power Frequency
Energy Measurement	4 quadrant measurement of kWh, kVAh, and kVAh
Maximum Demand	kW and kVA along with date and time
Time of Day	Up to 8 registers
Prepaid parameters	Tariff details (TOD/slab), fixed charges, minimum charges, other charges in EB and DG modes and applicable taxes Credit balance in INR Days left based on present month's average consumption

Display

LCD	8 digit backlit display
LCD Indicators	Indication for relay status, tamper
Display mode	Auto scroll, push button and high resolution modes
LED	Pulse LEDs for kWh and kVAh

Prepaid Features

Keypad	Encrypted STS based token entry using standard telephone keypad
Prepaid token features	Emergency credit; specific and non-reusable tokens; provision to program friendly hours/days, holidays; slab/time-of-day tariff structure
Overload protection	Trip on over-drawal of current or exceeding sanctioned demand
Buzzer	For low credit and emergency credit
Communication	Optical port RS 485 port for connection of CIU (optional)
Relay	Provided in all 3 phases complying to IS15884 with UC1/UC2
DG supply sensing	Uses a signal of 24-440 V AC/DC
Consumer Interface Unit (optional)	Display of meter parameters and token entry; LEDs provided for power ON/OFF and credit status
Authenticated Billing Code	Provides details of cumulative kWh and available meter credit to utility

