



Skipper Nigeria Ltd.

(Metering & Storage Power Division)

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SINGLE PHASE SMART METER AURORA

(Under Licensee Agreement with Schneider Electric India Limited)



Salient Features



Complying to IS 16444 Part 1



Full smart functionality



Communication options including optical, RF and cellular



Load connection/disconnection via relays in phase and neutral



Tamper alerts available



Data logging for instantaneous parameters, billing parameters and energy backups



Event logging with active energy, voltage and current snaps available



Power fail/restoration alerts (Last gasp /first breath)



Specifications	
Connection	1 Phase 2 Wire
Standards Applicable	IS 16444 Part 1
Accuracy Class	CI 1.0
Rated Voltage	240V (P-N)
Voltage Variation	-40% to +20%
Current Rating	10-60 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 16444 Part 1
Operating Temperature	-10°C to +55°C
Ingress Protection	IP 51
Supported parameters	(As per customer requirement)
Instantaneous	- Voltage - Phase and neutral current - Power factor - 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 4 registers, profiles and seasons
Display	
LCD	8 digit backlit display
LCD Indicators	Indication for relay status and tampers
Display mode	Auto scroll, push button and high resolution modes
LED	Pulse LEDs for kWh

Smart Features	
Alerts	Alert for power on/off, over voltage and over current
Load control	Disconnection provided for: - Over-current and overload conditions - Selected tampers - Disconnection signal from utility
Relay/load switch	Provided in both phase and neutral complying to IS15884 with UC1 Status available on display and data downloading
	Connection/ disconnection logged as events
Data security	Multi-level password for data reading and programming
Prepayment	Prepaid function as per IS15959 Part 2 (optional)
Communication	
Technology options	Optical port for local communication as per IS 15959 Part 2 - RF/cellular communication module with inbuilt/plug-in options
RF	- NAN communication over 865-867 MHZ - Mesh based Low Power Radio (<1W transmitted power) - IPv6 communication - Gateway-based topology
Cellular	- WAN communication - NB-IoT/4G with fallback to 2G modem



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THREE PHASE PREPAID ENERGY METER

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Salient Features



Complying to IEC 62055-41, IEC 62055-51/52



Prepaid electricity distribution with simple numeric codes for recharge



Current load cost and number of days left for usage shown on display



Programmable friendly hours/days, holidays, slab/time-of-day tariff structure



Load connection/disconnection via relays in all phase



Optional consumer interface unit (CIU) available for recharging



Specifications	
Connection	3 Phase 4 Wire
Standards Applicable	IEC 62055-41, IEC 62055-51/52
Accuracy Class	Cl 1.0
Rated Voltage	3x230V/400V
Voltage Variation	-40% to +10%
Current Rating	3x5(60)A
Starting Current	0.2% of basic current
Accuracy up to	120% of maximum current
Frequency	50Hz
Frequency Variation	±2%
Power Consumption	As per IEC 62055-41, IEC 62055-51/52
Operating Temperature	Upto 60°C
Ingress Protection	IP 51

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 both phase and neutral
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



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