

SOLUTIONS FOR

TARIFF METER.





engineers, professionals, and students.

India's growth journey.

With a deep national presence and one of the largest electrical distribution networks, comprising over 1500 partners across the country, we are committed to driving excellence and delivering superior products and solutions that power

Residential Metering

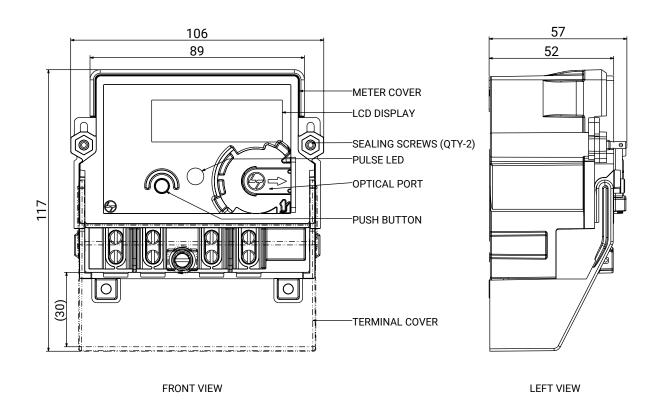
1 Ph Whole Current Energy Meter I EM101+

- > Class 1accuracy as per IS and IEC standards
- > Indication for power on, current reversal and ELT
- Reset backups
- > High surge withstand capability

- > Load Survey (Interval Data)
- > Anti-tamperfeatures
- > Optical port/ RS 232 port

Connection	1 Phase 2 Wire
Standards Applicable	IS 13779, IS 15959, CBIP 325 IEC 62052-11 IEC 62053-21
Accuracy Class	CI 1.0
Rated Voltage	230V / 240V (P-N)
Voltage Variation	-40% to +20%
Current Rating	5-30 A, 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 13779
Operating Temperature	-10°C to +55°C
Ingress Protection	IP 51
Supported parameters (As per customer requirement)	
Instantaneous	Voltage, Phase and neutral currents, PF, Active power and apparent power, Frequency
Energy Measurement	4 quadrant measurement of kWh and kVAh

Maximum Demand	kW and kVA along with date and time
Time of Day	Up to 8 registers, profiles and seasons
Display LCD	6-digit backlit display
Display mode	Auto scroll, push button and high resolution modes
LED	Pulse LED for kWh
Other Features	Day wise energies, Load survey profile Tariff wise energies Display and data reading in absence of power Tamper detection Bi-directional energy recording available
Data security	Multi-level password for data reading and programming
Communication	Electrically isolated optical port as per IEC62056-21
Optional communication	RS 232
Protocol supported	DLMS
Tamper	Ultrasonic welding available
proofing provision	(optional)



Three Phase Whole Current Trivector Energy Meter ER300P

> Class 1.0 accuracy as per relevant IS and IEC Standards

2 Phaco 4 Wiro

- › Bidirectional Energy recording
- > Load Survey (Interval Data)

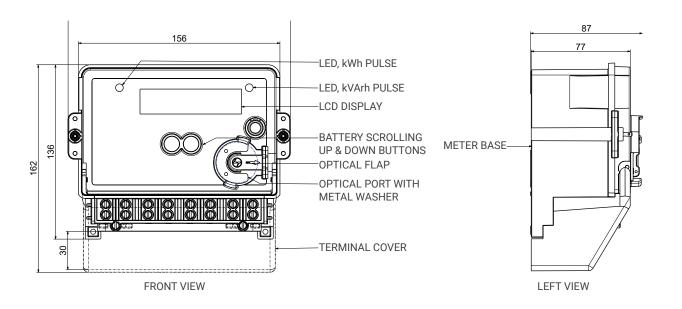
- > Anti-tamper features
- > Self-diagnostic capability
- Optical port / RS 232 / RS 485

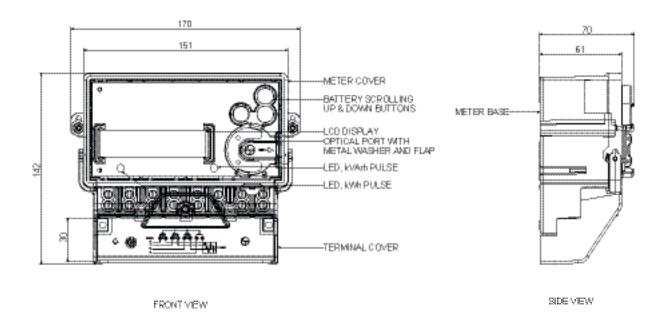
Specifications

Connection

Connection	3 Phase 4 Wire
Standards Applicable	IS 13779 IS 15959 CBIP 325 IEC 62052-11 IEC 62053-21
Accuracy Class	CI 1.0
Rated Voltage	3 x 230V / 3 x 240V (P-N)
Voltage Variation	-40% to +20%
Current Rating	5-30 A 10-40 A 10-60 A 20-100 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 13779
Operating Temperature	-10°C to +55°C
Ingress Protection	IP 51
Supported parameters (As per cu	stomer requirement)
Instantaneous	Phase wise Voltages and Currents, System PF, Active, reactive and apparent power Frequency Phase sequence
Energy Measurement	4 quadrant measurement of kWh, kVArh, and kVAh
Maximum Demand	kW and kVA along with date and time
Time of Day	Up to 8 registers, profiles and seasons

Display	
LCD	8 digit backlit display
Display mode	Auto scroll, push button and high resolution modes
LED	Pulse LEDs for kWh and kVArh
Other Features	Day wise energies Load survey profile Tariff wise energies Display and data reading in absence of power Tamper detection Bi-directional energy recording available
Data security	Multi-level password for data reading and programming
Communication	Electrically isolated optical port as per IEC62056-21
Optional communication Interface	RS 232 / RS 485
Protocol supported	DLMS on Optical, RS 232 & MODBUS on RS 485 port
Tamper proofing provision	Ultrasonic welding available (optional)





COMMERCIAL & INDUSTRIAL, DT METERING

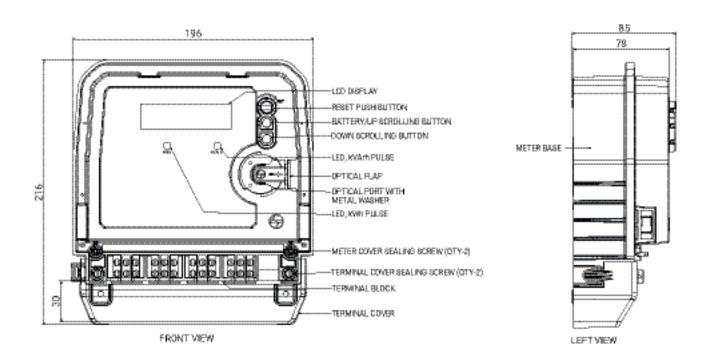
Three Phase LTCT Meter I ER300P

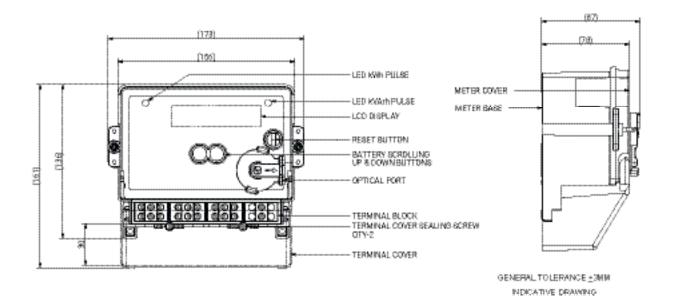
- > Class 0.Ss as per relevant IS and IEC Standards
- > 3 Phase 4 Wire
- > 4 Quadrant Measurement
- > Anti-tamper features

- > Self-diagnostic capability
- › Bidirectional Energy recording
- > Load Survey (Interval Data) features
- > Optical port/ RS 232 / RS 485

Connection	3 Phase 4 Wire
Standards Applicable	IS14697, IS15959 IEC 62052-11 IEC 62053-22 CBIP 325
Accuracy Class	CI 0.55
Rated Voltage	3 x 240V (P-N)
Voltage Variation	-40% to +20%
Current Rating	-/5A
Starting Current	0.1% of basic current
Accuracy up to	200% of basic current
Frequency	50Hz
Frequency Variation	-5% to +5%
Power Consumption	As per 15 14697
Operating Temperature	-10°C to +55°C
Ingress Protection	IP 51
Supported parameters (A	As per customer requirement)
Instantaneous	Phase wise voltages and currents, system PF, active power, reactive power and apparent power Frequency Phase sequence Total harmonic distortion
Energy Measurement	4 quadrant measurement of kWh, kVArh, and kVAh
Maximum Demand	kW and kVA along with date and time
Time of Day	Up to 8 registers, profiles and seasons

Display	
LCD	8 digit backlit display Auto scroll, push button and high resolution modes
LED	Pulse LEDs for kWh and kVArh
Other Features	Day wise energies Load survey profile Tariff wise energies Display and data reading in absence of power Tamper detection Bi-directional energy recording available
Data security Communication	Multi-level password for data reading and programming Electrically isolated optical port as per IEC62056-21
Optional communication	RS 232 / RS 485
Protocol supported	DLMS / MODBUS
Tamper	Customer specific Ultrasonic
proofing provision	welding available (optional) (optional)





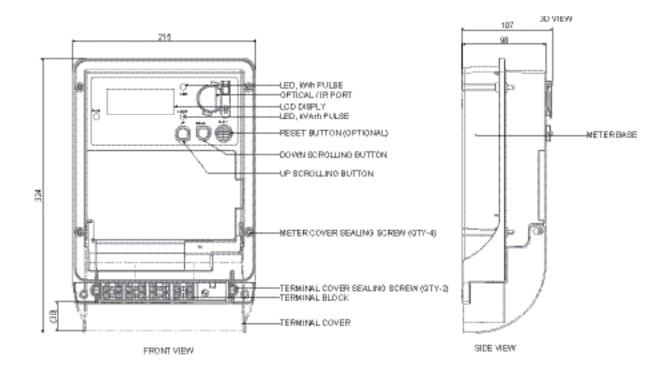
THREE PHASE HTCT MULTI-PORT METER ER300P

- > Class 0.2S as per relevant IS and IEC Standards
- > 3 Phase 4 Wire
- > 4 Quadrant Measurement
- > Anti-tamper features

- > Self-diagnostic capability
- > Bidirectional Energy recording
- > Load Survey (Interval Data) features
- > Optical port / RS 232 / RS 485 / TCP/IP communication port

Connection	3 Phase 4 Wire
Standards Applicable	IS 14697 IS 15959 IEC 62052-11 IEC 62053-22 CBIP 325
Accuracy Class	CI 0.2S
Rated Voltage	3 x 63.5V (P-N)
Voltage Variation	-40% to +20%
Current Rating	-/1A -/5A
Starting Current	0.1% of basic current Accuracy up to
Frequency Variation	200% of basic current
Frequency	50Hz
Frequency Variation	-5% to +5%
Power Consumption	As per IS 14697
Operating Temperature	-10°C to +55°C
Ingress Protection	IP 51
Supported parameters	(As per customer requirement)
Instantaneous	Phase wise voltages and currents, system PF, active power, reactive power and apparent power Frequency Phase sequence Total harmonic distortion
Energy Measurement	4 quadrant measurement of kWh, kVArh, and kVAh
Maximum Demand	kW and kVA along with date and time
Time of Day	Up to 8 registers, profiles and seasons

Display	
LCD	8 digit backlit display
Display mode	Auto scroll, push button and high resolution modes
LED	Pulse LEDs for kWh and kVArh
Other Features	Day wise energies Load survey profile Tariff wise energies Display and data reading in absence of power Tamper detection Bi-directional energy recording available
Data security	Multi-level password for data reading and programming
Communication	Electrically isolated optical port as per IEC62056-21
Optional communication	RS 232 / RS 485 / TCP/IP
Interface	communication port
Protocol supported	DLMS / MODBUS
Tamper proofing	Ultrasonic welding
provision	available (optional)



GRID/HT METERING

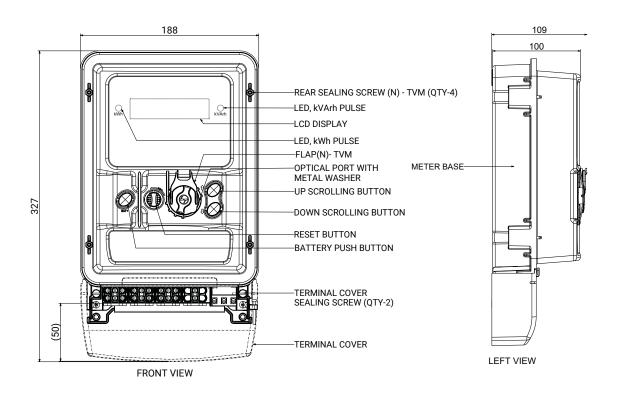
Three Phase HTCT Meter I ER300P

- > Class 0.5S, 0.2S as per relevant IS and IEC Standards
- > 3 Phase 4 Wire
- > 4 Quadrant Measurement
- > Anti-tamper features

- > Self-diagnostic capability
- > Bidirectional Energy recording
- > Load Survey (Interval Data) features
- > Optical port/ RS 232 / RS 485 (optional)

3 Phase 4 Wire	
IS 14697 IS 15959 IEC 62052-11 IEC 62053-22 CBIP 325	
CI 0.2S	
3 x 63.5V (P-N)	
-40% to +20%	
-/1A -/5A	
0.1% of basic current Accuracy up to	
200% of basic current	
50Hz	
-5% to +5%	
As per IS 14697	
-10°C to +55°C	
IP 51	
Supported parameters (As per customer requirement)	
Phase wise voltages and currents, system PF active power, reactive power and apparent power Frequency Phase sequence Total harmonic distortion	
4 quadrant measurement of kWh, kVArh, and kVAh	
4 quadrant measurement of kWh, kVArh, and kVAh	

Maximum Demand	kW and kVA along with date and time
Time of Day	Up to 8 registers, profiles and seasons
Display	
LCD	8 digit backlit display
Display mode	Auto scroll, push button and high resolution modes
LED	Pulse LEDs for kWh and kVArh
Other Features	Day wise energies Load survey profile Tariff wise energies Display and data reading in absence of power Tamper detection Bi-directional energy recording available
Data security	Multi-level password for data reading and programming
Communication	Electrically isolated optical port as per IEC62056-21
Optional communication	RS 232 / RS 485
Protocol supported	DLMS / MODBUS
Tamper proofing provision	Ultrasonic welding available (optional)



SINGLE PHASE SMART METERAURORA

- > 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)

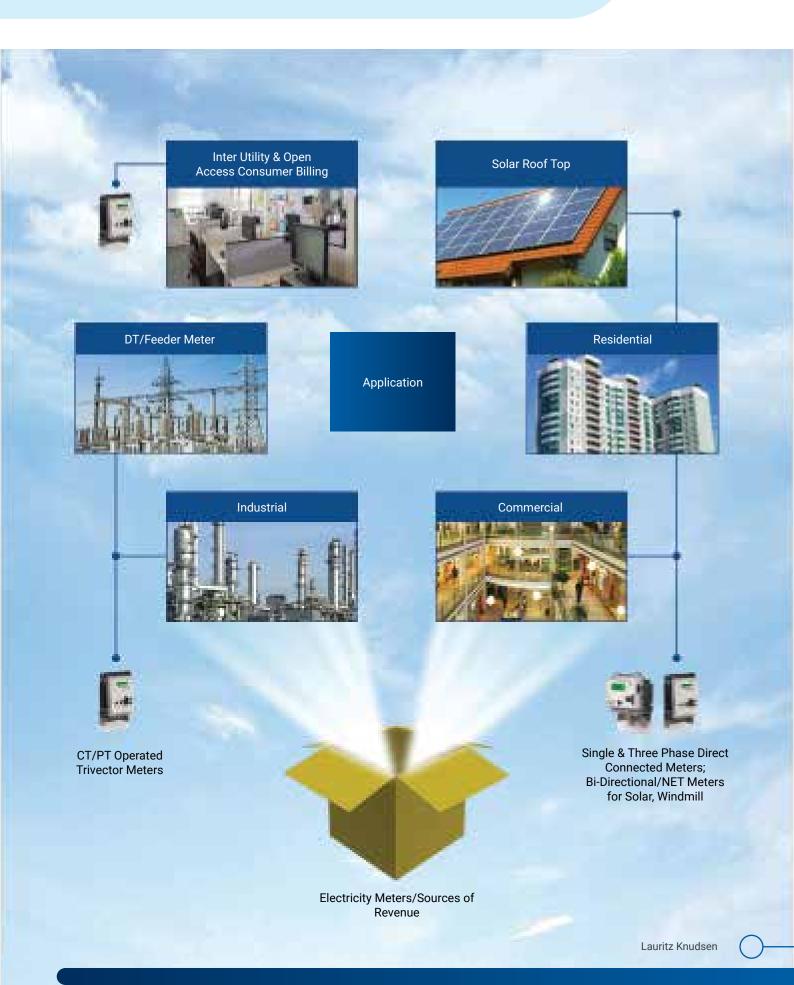
Specifications

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, kVArh,
3,	and kVAh
Maximum Demand	and kVAh kW and kVA along with date and time
Maximum Demand	kW and kVA along with date and time
Maximum Demand Time of Day	kW and kVA along with date and time
Maximum Demand Time of Day Display	kW and kVA along with date and time Up to 4 registers, profiles and seasons
Maximum Demand Time of Day Display LCD	kW and kVA along with date and time Up to 4 registers, profiles and seasons 8 digit backlit display
Maximum Demand Time of Day Display LCD LCD Indicators	kW and kVA along with date and time Up to 4 registers, profiles and seasons 8 digit backlit display Indication for relay status and tampers Auto scroll, push button and high

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 communication as per IS	Optical port for local 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

METERS FOR ALL CONSUMER SEGMENTS AND APPLICATIONS



SINGLE PHASE ENERGY METER



EM101+

Salient Features

- > Class 1 accuracy as per IS13779
- > Fully static & compact in size with bright LCD display
- > Current rating 5-30A & 10-60A
- Display consists of auto scrolling, manual scrolling (6+0 digit), battery mode & high resolution mode (2+4 digits)
- > Wide range of communication options Optical/ RS 232/ DLMS
- > Anti-tamper features
- Forward energy recording irrespective of current direction
- > High surge withstand capability
- Load surveys are available for 90 days with voltage, current, PF, KW & KVA

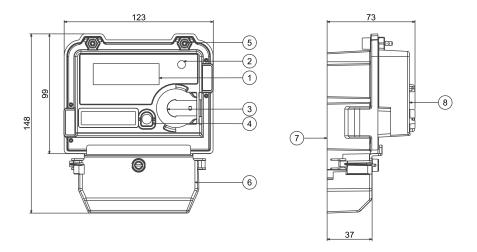
- Non time based reset backup or billing profile for last 12 months
- Display and data reading in power OFF condition (with inbuilt battery model only)
- Bi-directional energy recording available (Optionalapplicable for solar application)
- Meters are available with suitable hinge type polycarbonate enclosers/boxes (optional)
- Provisions for meter terminal sealing arrangement to prevent tampers
- To download NVM data base computer software & optical to USB cables are also available (on request & chargeable basis)

Technical Specifications

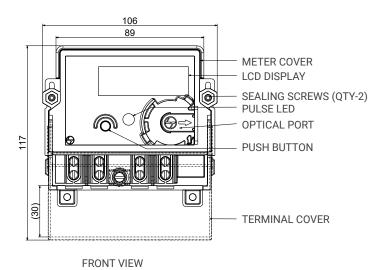
ELECTRICAL						
Connection	1 Phase 2 Wire Whole Current type					
Accuracy	Class 1 as per IS13779					
Rated voltage	240 V					
Voltage variation	+20% to -50%					
Current rating	5-30 A, 10-60 A					
Starting current	0.2% of basic current					
Frequency	50Hz ±5%					
Power consumption	As per IS13779					
STANDARD COMPLIANCE						
Applicable standards	IS13779					
ENVIRONMENTAL CONDITION	DNS					
Operating temperature -	10°C to +55°C					
Ingress Protection (IP)	IP51					
DISPLAY						
LCD	(6+0) digits backlit display & (2+4) digits high resolutions display.					
LED indicators	Pulse LED for kWha					

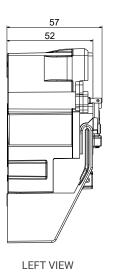
PARAMETERS SUPPORTED (As per customer requirements)						
Maximum Demand (MD)	kW and kVA along with date and demand integration period is 30 min					
Instantaneous parameters	Voltage, phase and neutral current, active and apparent powers, power factor, frequency					
Time of day tariff	TOD 1 for 00-24Hr					
Cumulative parameters	kWh, kVAh energies					
OTHER FEATURES						
Tamper proofing provision	Top cover open Single wire operation or neutral missing Earth load tamper Current reversal. SMagnetic logging.					
Communication	Optical IEC1107/ DLMS					

Mechanical Dimensions



- 1. LCD Display
- 2. LED 3. Optical Port
- 4. Push Button
- 5. Sealing Screw 6. Terminal Cover
- 7. Meter Base
- 8. Meter Cover





Note: Actual meter dimensions will depend on meter configuration

Ordering Informations for Single phase Meter

CAT No	Accuracy Class	Internal Battery	RTC	Additional Port-RS485 Modbus	Rated Voltage (V)	Current Rating (A)	Display Digits (Nos)	Cumulative KWH	MD in KW & KVA	Load Survey	Last 6 Month KWH Value in Display & Last 12 Months in NVM
WM101BC5DDH	Yes	Yes	Yes	No	240	5-30	6+0	Yes	Yes	Yes	Yes
WM101BC5DDHBOX	Yes	Yes	Yes	Yes	240	5-30	6+0	Yes	Yes	Yes	Yes
WM101BC7DDH	Yes	Yes	Yes	No	240	10-60	6+0	Yes	Yes	Yes	Yes
WM101BC7DDHBOX	Yes	Yes	Yes	Yes	240	10-60	6+0	Yes	Yes	Yes	Yes
WM101BC5DL0	NO	NO	Yes	No	240	5-30	6+0	Yes	NO	NO	NO
WM101BC5DL0BOX	NO	NO	Yes	Yes	240	5-30	6+0	Yes	NO	NO	NO
WM101BC7DL0	NO	NO	Yes	No	240	10-60	6+0	Yes	NO	NO	NO
WM101BC7DL0BOX	NO	NO	Yes	Yes	240	10-60	6+0	Yes	NO	NO	NO
WM101BC5DLMSC*	YES	Yes	Yes	No	240	5-30	5+1	Yes	Yes	Yes	Yes

^{*}With extra RS232 Port for AMR/RMR Support

TRIVECTOR METER



ER300 P

Salient Features

- > Accuracy class 0.2s, 0.5s, 1.0 as per relevant IS standards
- Suitable for Bi-directional solar/NET metering application (Optional)
- > RS485 modbus available in 10-60A Whole Current meters
- Configurable multiple tariffs and maximum demand registers
- > Communication via optical / RS 232 / RS 485

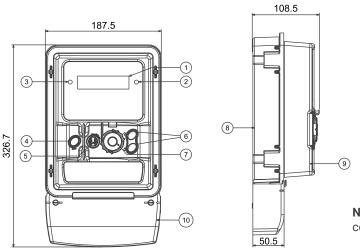
- > Anti-tamper features
- > Full four quadrant operation
- > Display and data reading in power OFF condition
- > Factory programmable for unidirectional or Bi-directional
- Suitable hinge type polycarbonate boxes are available (optional)

Technical Specifications

ELECTRICAL	
ELECTRICAL	M
Connection	Meter is 3P 4W suitable for 3P 4W Wire and 3P 3W system
Accuracy	Class 0.2s/0.5s as per 1S14697 Class 1.0 as per 1S13779
Whole current /	240 V (P-N)
Direct Connected	
• CT Operated	
3 Phase 4 Wire	240 V (P-N)
CT\PT Operated	
3 Phase 4 Wire	63.5 V (P-N)
3 Phase 3 Wire	110 V (P-P)
Voltage variation	
Whole current /	-40% to +20%
Direct Connected	
CT Operated	-30% to +20%
CT\PT Operated	
Current Rating	
Whole current /	10-60 A, 20-100 A
Direct Connected	
• CT\VT Operated	
Basic	1A, 5A
Maximum	120 % of basic current (200 % basic current- Optional)
Frequency	50Hz ±5%
Power Consumption	As per 1S14697 for CT/PT operated As per 1S13779 for whole current
STANDARD COMPLIANCE	
Applicable standards	IS13779 for class 1 IS14697 for Class 0.2s/0.5s IS 15959 IEC62053-21, IEC62053-22
ENVIRONMENTAL CONDIT	TIONS
Operating temperature	-10°C to +55°C
Ingress Protection (IP)	IP51

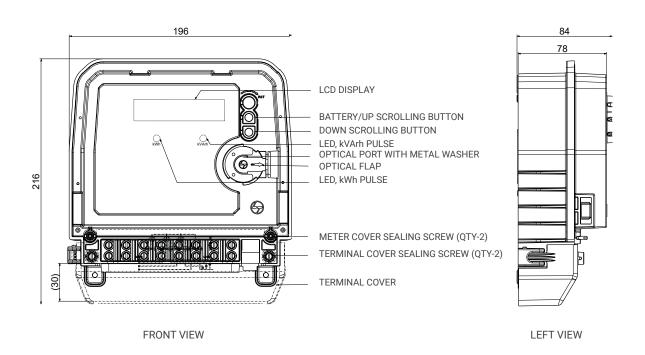
PARAMETERS SUPPORTED (As per customer requirements)					
Maximum Demand (MD)	kW and kVA along with date and time				
Instantaneous parameters	Phase wise voltages and currents, active reactive and apparent powers, power factor, frequency				
Time of Day Tariff	Up to 8 Registers, profiles and seasons				
Energy measurement	4 quadrant measurement of kWh, kVArh, and kVAh				
Display					
LCD	8 digit backlit display				
Display Mode	Auto scroll, push button and high resolution modes				
LED	Pulse LEDs for kWh and kVArh				
OTHER FEATURES					
Load survey	kVAh, kWh, kVArh lag, kVArh lead, voltages and currents				
Data Security	Multi level password for data reading and programming				
Communication	Electrically isolated optical port as per IS15959/ IEC62056-21 (DLMS)				
Optional					
Optional communication	RS 232 / RS 485				
Protocol supported	DLMS as per IS15959				
Tamper Detection (as per	Missing Potential, Voltage related				
customer requirements)	tampers, Current related tampers, Low Power Factor, Meter Cover Open, Abnormal Magnetic influence, Wrong phase sequence detection				
Tamper proofing provision	Ultrasonic welding available (optional)				

Mechanical Dimensions



1. LCD Display
2. LED kVArh
3. LED kWh
4. Battery Push Button
5. Reset Push Button
6. Up/Down Scroll Push Button
7. Optical Port
8. Meter Base
9. Meter Cover
10. Terminal Cover

Note: Actual meter dimensions will depend on meter configuration



Ordering information for Trivector Meters, WC & LTCT Meters, Accuracy -1.0 for WC & 0.5s for LTCT

CAT No	Accuracy Class	Internal Battery	RTC	Additional Port-RS485 Modbus	Rated Voltage (V)	Current Rating (A)	Display Digits (Nos)	Cumulative KWH	MD in KW & KVA	Load Survey 40 days for all energy values	CT Ratio need to be provided at the time of ordering
WR300BC7300	1	Yes	Yes	No	415/240	10-60A	6+2	Yes	Yes	Yes	NO
WR300BC73RS485	1	Yes	Yes	Yes	415/240	10-60A	6+2	Yes	Yes	Yes	NO
WR300BC52RS	0.5s	Yes	Yes	Yes	415/240	/5	6+2	Yes	Yes	Yes	Yes

Ordering information for Trivector Meters-HT CT/PT Operated 0.5s or 0.2s

CAT No	Accuracy Class	Internal Battery	RTC	Additional Port-RS485 Modbus	Rated Voltage (V)	Current Rating (A)	Display Digits (Nos)	Cumulative KWH	MD in KW & KVA	Load Survey 40 days for all energy values	CT Ratio need to be provided at the time of ordering
WR300BB52RS	0.5s	Yes	Yes	Yes	110/63.5	/5	6+2	Yes	Yes	Yes	Yes
WR300BB12RS	0.5s	Yes	Yes	Yes	110/63.5	/1	6+2	Yes	Yes	Yes	Yes
WR300BB51RS	0.2s	Yes	Yes	Yes	110/63.5	/5	6+2	Yes	Yes	Yes	Yes
WR300BB11RS	0.2s	Yes	Yes	Yes	110/63.5	/1	6+2	Yes	Yes	Yes	Yes

ABT (AVAILABILITY BASED TARIFF) METER



ER300 P

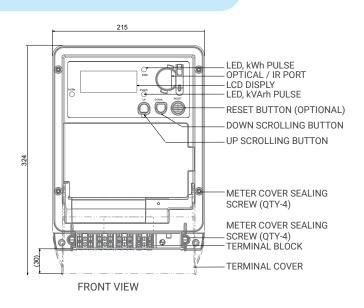
Salient Features

- > Accuracy class 0.2s as per relevant IS 14697
- > Frequency based energy measurement
- > Suitable for inter-utility or open access consumer billing
- Store energy values in every 15 mints block along with avg frequency in same interval
- ABT meters are also available as per PGCIL specs, guidelines & capable of convert data in NPC format (Power Grid's report format)
- > Consider Step frequency 0.01Hz.
- Communication via optical (IEC1107/DLMS) / RS232 / RS485 (MODBUS/DLMS)-(Optional)
- > Anti-tamper features
- > Display and data reading in power OFF condition
- Capable of recording Load Survey data & easy download through Base Computer Software
- > Approved in all major utilities across the country

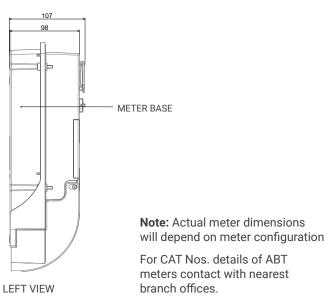
ELECTRICAL	
Connection Accuracy	3 Phase 4 Wire Class 0.2s/0.5s (active/reactive) as per IS14697 or 0.2s/0.2s (active/active).
CT\PT Operated	
3 Phase 4 Wire	63.5 V (P-N)
3 Phase 3 Wire	110 V (P-P)
Voltage variation	
Whole current /	-40% to +20%
Direct Connected	
• CT Operated	-30% to +20%
CT/PT operated	
Current Rating	
CT\VT Operated	
Basic	1A, 5A
Maximum	120 % of basic current (200 % basic current-Optional)
Frequency	50Hz ±5%
Power Consumption	As per 1S14697 for CT/PT operated
STANDARD COMPLIANCE	
Applicable standards	IS14697 for Class 0.2s/0.5s IS15959 IEC62053-21, IEC62053-22
ENVIRONMENTAL CONDITIONS	
Operating temperature	-10°C to +55°C
Ingress Protection (IP)	IP51

PARAMETERS SUPPORT	ED (As per customer requirements)
Maximum Demand (MD)	kW and kVA along with date and time (Optional)
Instantaneous parameters	Phase wise voltages and currents,
	active reactive and apparent powers,
	power factor, frequency
Time of Day Tariff	Up to 8 Registers, profiles and seasons (Optional)
Energy measurement	Frequency based.
Display	
LCD 8 digit backlit display	
Display Mode	Auto scroll, push button and high resolution modes
LED	Pulse LEDs for kWh and kVArh
OTHER FEATURES	
Load survey	kVAh, kWh, kVArh lag, kVArh lead, phase wise voltages and currents
Data Security	Multi level password for data reading and programming
Communication	Electrically isolated optical port as per 1S15959/ IEC62056-21 (DLMS, CAT B)
Optional communication interfaces	RS 232 / RS 485 / Ethernet.
Protocol supported	DLMS as per IS15959 and MODBUS (For RS485)
Tamper Detection (as per	Missing Potential, Voltage related
customer requirements)	tampers, Current related tampers, Low Power Factor, Meter Cover Open, Abnormal Magnetic influence, Wrong phase sequence detection
Tamper proofing provision	Ultrasonic welding available.

Mechanical Dimensions



3D VIEW



Electrical Standard Products (ESP) Offices

HEAD OFFICE

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