

BB-3M

AMI-ready Direct-connected Three Phase Meter



BRICK & BYTE

BB-3M is an intelligent three-phase meter combining monitoring and load control facilities for advanced metering infrastructure (AMI) applications.

The provision of Power line carrier (PLC), mesh radio and 3G/GPRS/GSM communications technologies makes BB-3M easy to integrate with remote reading infrastructures.

Communication is also available through ZigBee to in-home displays (IHD) for Smart Metering installations.

BB-3M is equipped with remote supply connect-disconnect relays for energy management applications.



Application:

- ♦ Domestic three phase metering with remote billing and disconnect
- ♦ Metering for small commercial premises
- ♦ Metering for advanced metering infrastructure (AMI) deployment
- ♦ Metering for micro-generation installations

Benefits:

- ♦ Remote reading and disconnection function reduces routine meter visits
- ♦ Easy integration in AMI system
- ♦ Easy Diagnosis of faults via instantaneous electrical parameters
- ♦ Prolonged asset life via remote firmware upgrade
- ♦ Helps in reducing energy consumption

Features:

- ♦ True four-quadrant measurement
- ♦ Time of use tariff and maximum demand recording
- ♦ Remote connect-disconnect feature
- ♦ Communication options like ZigBee, PLCC, GPRS/GSM
- ♦ Logging of multi parameter load survey and billing data

BRICK & BYTE INNOVATIVE PRODUCTS PVT. LTD.

R 102, TTC Industrial Area, MIDC Rabale, Navi Mumbai-400 701

Email: info@brickandbyte.in, Phone: 022-27641695/96, Fax: 022-27603044

Technical specifications

Electrical

Connection type	Direct connected
Wiring configuration	3-phase 4-wire
Voltage range	3*240 VAC (-40% to +20% of rated range)
Current range	10 - 60 A (Overload - 150% of I _{max})
Accuracy	Class 1.0
Mains frequency	50 Hz ± 5%
Burden	Voltage Circuit: < 2.5 W, 10 VA per phase Current Circuit: < 1 VA per phase
Starting Current	0.2% of I _b
Impulse Rate	1200 Impulses / KWh

Display

Type of Display	Backlit LCD Display
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Compliance

Standards	IS: 13779, CBIP 88
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Environmental

Temperature	-10 °C to +55 °C (operating)
Humidity	Maximum 95% non-condensing

Other Features

Energy Registration Mechanism	Four Quadrant Energy Measurement
Maximum Demand	KW / KVA Selectable
Maximum Demand Period	15 / 30 min. Selectable
Demand Reset Mechanism	Manual/Auto, Monthly/Bi-monthly, Odd/Even month Selectable
Tamper Logging	Available - FIFO basis
Communication	Optical port, ZigBee 2.4 GHz, PLCC, GSM/GPRS communication
AMI Function Support	Yes - Remote Connection / Disconnection
Load Profile	Active Energy on 15 min interval for period of minimum 30 days
