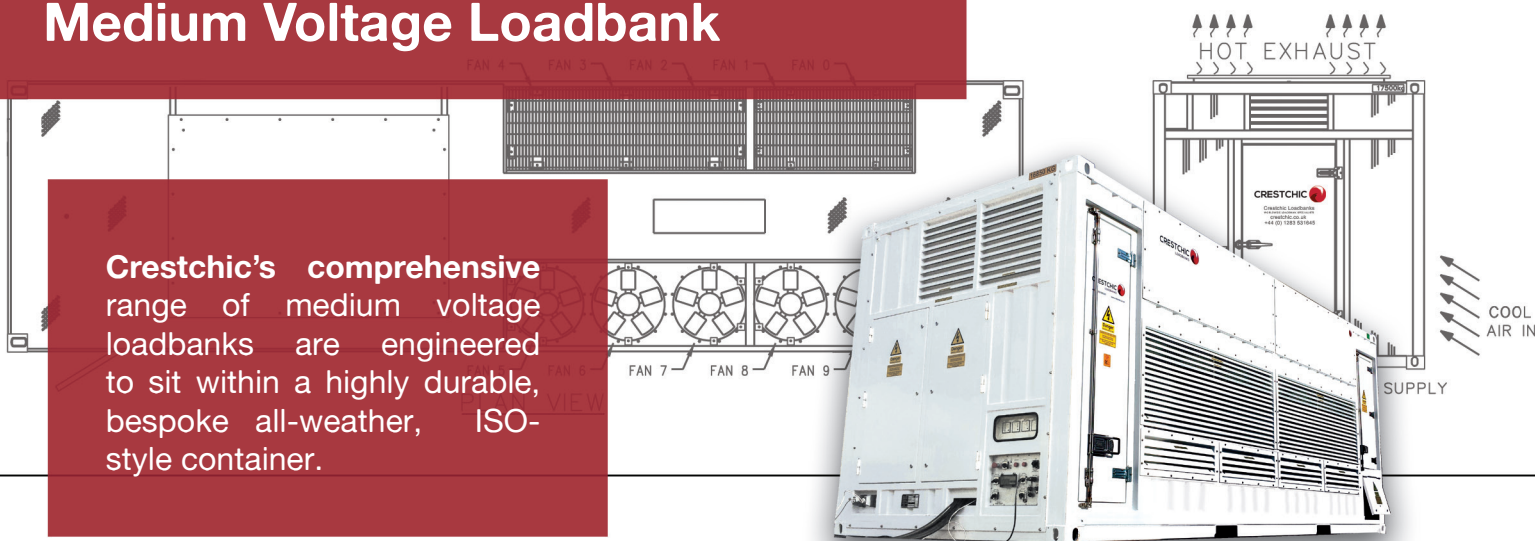


Medium Voltage Loadbank

Crestchic's comprehensive range of medium voltage loadbanks are engineered to sit within a highly durable, bespoke all-weather, ISO-style container.



Primarily used for the testing of M.V. gensets and power supplies, this M.V. loadbank is available as either Resistive Only at 1.0pf: 500kW to 4000kW or Resistive/Reactive 0.8pf: 500kVA to 3500kVA to suit the application. Voltages from 3.3kV to 20kV are available.

This purpose designed and built rigid ISO container has the latest technology on board including ABB's 'Safeplus' programable M.V. switchgear, which guards from over-voltage and also features Crestchic's familiar high-power microprocessor-based 'Eclipse®' control system.

Operating Benefits

- A single ISO container reduces the footprint (no separate transformer necessary), making logistics simple and highly cost effective.
- Rain and other adverse weather conditions will not affect the operation of the loadbank, thanks to its bespoke weather-proof design. Electrical sections are rated IP55.
- Operator friendly controls allowing the load to be added in 1kW/1.25kVA steps offering greater controllability.
- Wide selection of control interfaces, including Modbus® on local control systems.
- Multi-tap voltage options are available
- Independent LV operation option available



"SAFEPLUS" M.V. Switchgear

The Crestchic M.V. loadbank is fitted with sophisticated ABB medium voltage switchgear, digitally relayed to accurately set the voltage control. Providing over-voltage protection, this inherently safe method of control allows testing at 3.3kV up to 20kV.



Data and Specifications

Resistive Only 1.0pf Containerised Loadbanks

Step Resolution:
1kW



kW@ 1.0pf	Dimensions L x W x H mm
500	1900 x 2438 x 2591
750	4572 x 2438 x 2591
1000	4572 x 2438 x 2591
1250	6058 x 2438 x 2591
1500	6058 x 2438 x 2591
2000	6058 x 2438 x 2591
2500	6058 x 2438 x 2591
3000	7620 x 2438 x 2591
3500	9144 x 2438 x 2591
4000	9144 x 2438 x 2591

Resistive/Reactive 0.8pf Containerised Loadbanks

Step Resolution:
1.25kVA

KVA@ 0.8pf	Dimensions L x W x H mm
500	1900 x 2438 x 2591
750	2991 x 2438 x 2591
1000	4572 x 2438 x 2591
1250	4572 x 2438 x 2591
1700	6058 x 2438 x 2591
1875	6058 x 2438 x 2591
2000	6058 x 2438 x 2591
2500	6058 x 2438 x 2591
3000	7620 x 2438 x 2591
3500	9144 x 2438 x 2591

Other capacities available on request.

Auxiliary Power (Control)

Loadbank control can be supplied by either the power source being tested (internal) or from a separate auxiliary supply (external).

Cooling Fan Supply

The cooling fan can operate from the internal 'test' supply or from an external auxiliary power supply.

Cable Connections

The cable termination chamber within the enclosure is fitted with bus-bars and M16 brass nuts and bolts for connection of MV cables.

Controls

HHT100



Crestchic Hand Held Terminal (HHT100)/'Eclipse®' microprocessor for P.C.

With our enhanced microprocessor based 'Eclipse®' control system comes a greater level of control and flexibility, this can be combined with our PC software package to offer data capture of transients during a generator test.

- Simulator and pre-programmable practice tool
- Manual load is selected by simple sliders allowing fully variable Power Factor
- Automatic load control gives the ability to create flexible and variable test profiles, which can be saved and run at a later date
- Load expressed as percent of supply or actual load
- Motor load ('M' load) automatically calculated
- Test program editor supports load ramping (load applied gradually over the time entered); automatic data capture as load change is performed; easy verification of test program from within the editor with single stepping
- Ability to add notes and customer annotations to reports
- All recorded data can be saved to disk



Modbus® - TCP/IP for Industrial Ethernet

Both direct control and data acquisition collected from our loadbanks can be displayed and utilised on customer PCs through the Modbus® interface. This communication protocol is the acknowledged de facto standard for industrial data integration.

For further information contact:

Crestchic Limited
Second Avenue, Centrum 100
Burton-on-Trent, DE14 2WF
United Kingdom

Tel +44 (0) 1283 531645
Fax +44 (0) 1283 510103
sales@crestchic.co.uk
hires@crestchic.co.uk
www.crestchic.co.uk

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