



500KW RESISTIVE AUTO LOAD SHEDDING LOAD BANK

- ◆ AUTO CONNECT & DISCONNECT OF LOAD STEPS TO MAINTAIN PRESET GENERATOR LOADING
- ◆ CONTINUALLY MONITORS EXTERNAL GENERATOR LOAD TO PREVENT UNDER OR OVER LOADING
- ◆ MANUAL LOAD TESTING FACILITY
- ◆ MULTI FUNCTION PLC COLOUR TOUCHSCREEN
- ◆ IP65 STAINLESS STEEL LOAD RESISTORS
- ◆ CIRCUIT BREAKER LOAD STEP PROTECTION
- ◆ OVER TEMPERATURE & FAN FAIL PROTECTION
- ◆ STAINLESS STEEL GRILLE AND FASTENERS

SPECIFICATIONS

DIMENSIONS: Standard : H:2070mm W:1315mm D:1408mm
(including lift frame and base mounting rails)

UNIT WEIGHT: Standard : 792 KG
(including lifting frame and base mounting rails)

LOAD RATING: 500KW @ 400 volt AC +/- 10% , 50Hz, 3 wire connection (Other voltages and Hz ratings available)

LOAD STEPS: Six (6) steps 1 x 20kW, 1 x 40kW, 1 x 80kW & 3 x 120kW

LOAD SELECTION: PLC controlled 6 step loading in 20kW increments to maintain programmed generator KW load

RESISTOR WIRING: 200 degree 'C' rated silicone insulated

LOAD CABLE CONNECTIONS: Shielded terminal links with 1 x M12 bolted connections per phase

FAN MOTOR: 5.5KW, 400 VOLT +/- 10%, 50Hz ,6 pole TEFC, IP54. DOL start with thermal overload

FINISH: Grey/black UV stabilised Powder Coat with stainless steel discharge grille and fasteners

ENCLOSURE: IP54 (control panel door closed)
IP44 (control panel door open)

SOUND LEVEL: 80dba @ 1 metre (averaged free field)



OPTIONAL EQUIPMENT

GALVANISED BASE: Hot dip galvanised mounting base with forklift slots (replaces standard mounting rails)

DIGITAL METERING: Backlit LCD for Volts, Amps KW, KVA, KWH, PF with RS-485 Mod-Bus communication

AUXILLARY POWER: External control/fan power inlet with panel mounted changeover switch (wiring only)

FAN REVERSE : Fan motor reversing switch to change air flow direction when supply phase rotation is incorrect

REMOTE HMI SCREEN: Remote control HMI screen with RJ45 Ethernet communications (max. 90 metres)

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LOAD-LOGIC ALS CONTROLLER

CONTROL INTERFACE: 7" Colour touch screen with clear and concise menus and navigation pages

LOAD STEPS: Six (6) load steps as listed are standard however non-standard Kilowatt ratings on each load step are an available option.

MANUAL MODE: The Load - Logic controller allows the operator to connect the load bank steps in sequence to the generating set for testing or exercising purposes. On completion there is a 300 second cool down phase. If auto operation is called for during manual testing the controller will automatically disconnect all load steps and enter the auto mode.

AUTO MODE: Uses a single current transformer (CT) in an outgoing generating set cable enabling the controller to maintain a pre-set load on the generating set. Using the load bank steps available. As the external load on the generating set either increases or decreases the Load-Logic controller will connect and disconnect load steps to maintain a generator loading as close as possible to the set percentage without exceeding this load figure. Operation of the control system is totally automatic after the initial set-up.

HOME SCREEN: for system mode selection, manual operation and status/fault display

- Emergency stop (status)
- Load bank temperature (status and fault)
- Load bank operation (status)
- Cooling fan (status and fault)
- Load sensing input (status and fault)
- Generating set (status and fault)
- Cool down timer countdown

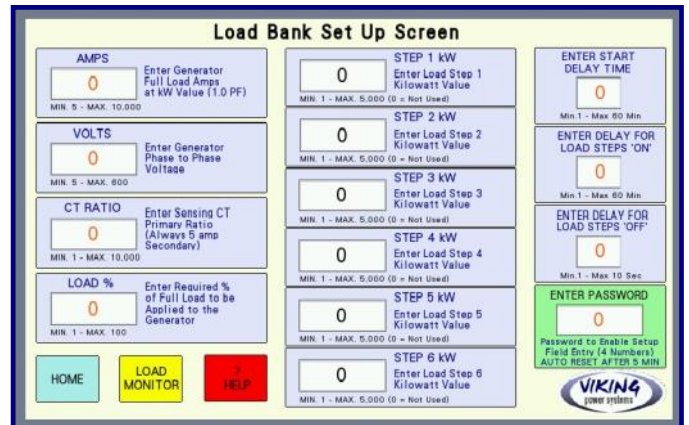
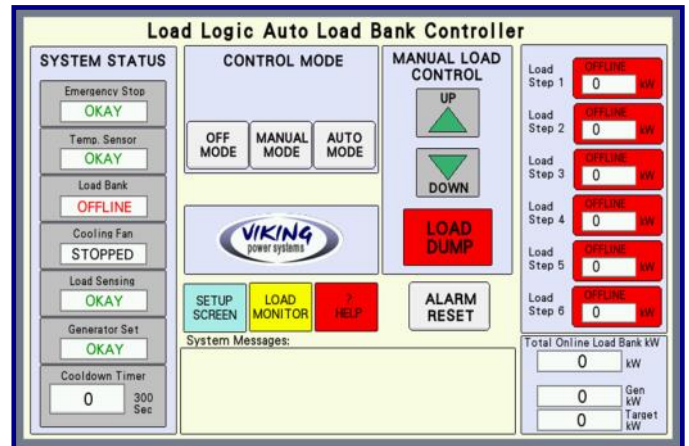
SET-UP SCREEN: For installation of system parameters

- Generating set rating (amps @ 1.0pf)
- Generating set Voltage
- Load sensing current transformer ratio
- Required generating set load percentage
- Delay start load monitoring (1- 60 minutes)
- Delay load step on (1 - 60 minutes)
- Delay load step off (1 - 10 seconds)
- Load bank cool down (fixed 300 seconds)

LOAD BANK MONITORING SCREEN (OPTIONAL) :

- Voltage (phase to phase)
- Frequency (Hz)
- Current (amps per phase)
- Total Kilowatts (generator and load bank)
- Load Kilowatt set point status

HELP SCREEN: Separate multi page help screen providing detailed operating instructions and assistance with rectification of common faults.



DIMENSIONS:

