

TECHNICAL DATA SHEET EMC100 & EMC100i



Description	EMC100	EMC100i
Input Volts	Nominal input voltage 216V-253V, 50Hz AC	Nominal input voltage 216V-253V, 50Hz AC
Optimised Output Volts	-6%, -7%, -8%, -9%, -10% of input	-6%, -7%, -8%, -9%, -10% of input
Continuous Current Rating	100A 3PH	100A 3PH
Efficiency	>99.7%	>99.7%
Operating Temperature	-5°C to +40°C	-5°C to +40°C
Humidity	80% (non-condensing)	80% (non-condensing)
Dimensions (mm)	720h x 530w x 430d	870h x 530w x 570d
Weight	110Kg	125Kg
Terminal Capacity	Incoming Live – 35mm Incoming Neutral – 35mm Outgoing Live – 35mm Outgoing Neutral – 35mm Earth – 35mm	Incoming Live – 35mm Incoming Neutral – 35mm Outgoing Live – 35mm Outgoing Neutral – 35mm Earth – 35mm
Phase Terminal Tightening Torques	2.5 – 5 Nm	2.5 – 5 Nm
Cable Entries	Front, left & right sides	Front, left & right sides (dependent on control box positioning)
Control Box Positioning	N/A	Front unless otherwise specified, left or right sides as options
True Bypass Switch	Optional Extra	Optional Extra
Frequency	50Hz	50Hz
On board Status Indication	N/A	As Standard c/w Optimising, Inhibit, Over temp LEDs, input multifunction meter, output Voltmeter, Fault contactor

TECHNICAL DATA SHEET cont . . .

EMC100 & EMC100i

Description	EMC100	EMC100i
Remote Status Indication	N/A	As standard c/w GSM remote metering & monitoring via PC or smart mobile
Remote Alarms and Email Notifications	N/A	Standard
Audible Alarm	N/A	Yes
<i>Auto BrownOut</i> Under Voltage Inhibit	N/A	Standard
Manual Key switch Inhibit	N/A	Standard
Manual Control Maintenance Bypass	N/A	Standard
Mounting Fixings	Floor Standing 10mm Hole	Floor Standing 10mm Hole
Enclosure	Mild Steel Powder Coated	Mild Steel Powder Coated
Colour	Grey (RAL 9035)	Grey (RAL 9035)
Ingress Protection	IP31	IP31
Packaging	Palletised	Palletised
Standards	BSEN61439 Low Voltage Switchgear	BSEN61439 Low Voltage Switchgear
Warranty	10 Years	5(15) Years

Typical Connection Arrangement

L1, L2, L3 and Neutral conductors in and out of the ECO-MAX optimiser as detailed on diagram below.

