TECHNICAL DATA SHEET
EMC3600 & EMC3600i

ECO-max
COMMERCIAL
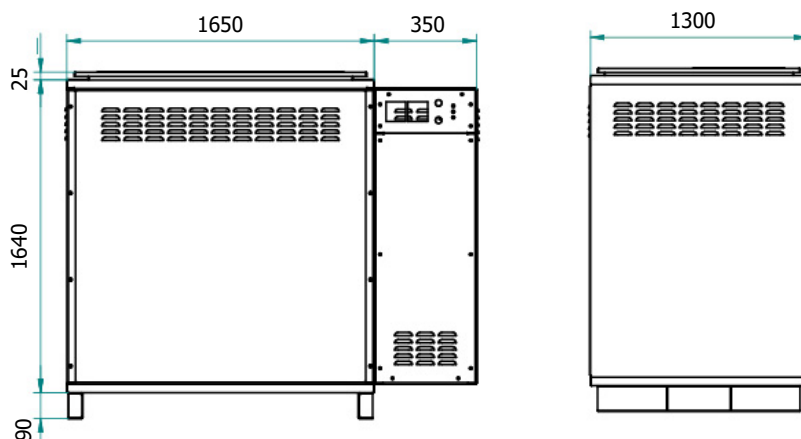
Description	EMC3600	EMC3600i
Input Volts per phase	Nominal input voltage 216V-253V, 50Hz AC	Nominal input voltage 216V-253V, 50Hz AC
Optimised Output Volts	-6%, -7%, -8%, -9%, -10% of input as standard – other options available	-6%, -7%, -8%, -9%, -10% of input as standard – other options available
Continuous Current Rating	3600A 3PH	3600A 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)
Approximate Dimensions (mm)	1755h x 1650w x 1300d	1755h x 2000w x 1300d
Approximate Weight	2025Kg	2340Kg
Terminal Capacity	Bespoke Arrangement	Bespoke Arrangement
Cable Entries	Normally 2 x removable gland plates to top of unit	Normally 2 x removable gland plates to top of unit
Control Box Positioning	N/A	left or right sides, (shown to RHS in picture & drawing above)
Bypass Switch	Optional Extra	Standard - allows maintenance & adjustment of the output voltage without the need to isolate the main supply
Main Incoming Device	Optional Extra - Isolator, Fused Switch, MCCB or ACB on request	Optional Extra - Isolator, Fused Switch, MCCB or ACB on request
On board Status Indication	N/A	As Standard c/w Optimising, Inhibit, Over temp LEDs, input multifunction meter, output Voltmeter

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EMC2000 & EMC2000i

Description	EMC3600	EMC3600i
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	Standard
Auto BrownOut Under Voltage Inhibit	N/A	Standard
Manual Key switch Inhibit	N/A	Standard
Manual Control Maintenance Bypass	N/A	Standard
Mounting Fixings	Floor Standing 12mm Hole	Floor Standing 12mm 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	BSEN61439-2:2011 BS EN 61558	BSEN61439-2:2011 BS EN 61558
Warranty	10	5(15) Years

Remote Operation, Metering & Monitoring (EMCi Version Only)

Technical Features

Communication	GPRS(GSM) (900/1800 MHz) (10/100 Ethernet available on request)
SIM Type	Mini – UK roaming (please state if to be used outside UK)
Minimum GSM signal strength requirement	-108dBm
Supported Meters	Modbus RS-485 (pulsed output meters via I/O) expanders)
Maximum number of meters	8 (4,096 with expanders)
Meter wiring topology	Daisy Chain

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Recommended Modbus cable specification	BELDEN 9842NH Multipair Screened Cable
Modbus end of line resistor value	120Ω
Maximum temperature sensors via 1-Wire bus	3

Standard Alarms & Status Updates

Description	Action	
	Email	Inhibit
Voltage Optimisation Inhibit – (Grid supply voltage too low)		Yes
Manual Optimisation Inhibit - (ECO-MAX key switch in inhibit)		Yes
ECO-MAX @ 90% Loading – (phase current above 90% rating)	Yes	
ECO-MAX Overloaded – (phase current above 100% rating)	Yes	Yes
ECO-MAX Over Temperature – (winding temperature exceeded)	Yes	Yes

Please note that the standard alarms and status updates shown above represent only small selection of the available functionality. Please contact us to discuss any additional requirements that you may have.