

- Reduction in voltage = reduction in consumption = reduction in your energy bill
- Typically 10-15% residentially and 20%+ commercially
- Simple 2 wire in, 2 wire out installation for single phase supplies, fitted in less than 2 hours
- Cost-effective way of reducing your energy bills (less than £1000 supplied and fitted on average for a 100A single phase device [PEMH100])
- Work well with Solar installations
- 63A Single Phase - 4350A Three Phase product range



THE POPULAR PEMH63/PEMH100 SINGLE PHASE OPTIMISER

Description	PEMC200	PEMC200i
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	200A 3PH	200A 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	720h x 530w x 570d
Weight	200Kg	215Kg
Terminal Capacity	Box Terminals with 6mm Hex Skt Incoming Live – 95mm Box Incoming Neutral – 95mm Box Outgoing Live – 95mm Box Outgoing Neutral – 95mm Box Earth – 12mm Stud	Box Terminals with 6mm Hex Skt Incoming Live – 95mm Box Incoming Neutral – 95mm Box Outgoing Live – 95mm Box Outgoing Neutral – 95mm Box Earth – 12mm Stud
Phase Terminal Tightening Torques	0.8 – 1.2 Nm	0.8 – 1.2 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
Status Indication	N/A	Optimising, Inhibit, Over temp LEDs Input multifunction meter, output Voltmeter, remote metering & monitoring via PC or smart mobile

Description	PEMC200	PEMC200i
Audible Alarm	N/A	Yes
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
Guarantee	5 Years	5 Years

Description	PEMH63	PEMH100
Input Volts	Nominal input voltage 216V-253V, 50Hz, Single Phase AC	Nominal input voltage 216V-253V, 50Hz, Single Phase AC
Optimised Output Volts	-6% (15V), -8% (20V), -10% (25V)	-6% (15V), -8% (20V), -10% (25V)
Continuous Current Rating	63A	100A
Winding Type	Toroidal	Toroidal
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)	230h x 360w x 140d plus 150mm clearance to any two sides	250h x 380w x 140d plus 150mm clearance to any two sides
Weight	14Kg	19Kg
Terminal Capacity	Incoming Live – 35mm Incoming Neutral – 35mm Outgoing Live – 35mm Outgoing Neutral – 35mm Earth – 25mm	Incoming Live – 35mm Incoming Neutral – 35mm Outgoing Live – 35mm Outgoing Neutral – 35mm Earth – 25mm
Terminal Tightening Torques	2 – 3.5 Nm	2.5 – 5 Nm
Cable Entries	2 x 32mm LHS 2 x 32mm RHS 4 x 32mm Bottom	2 x 32mm LHS 2 x 32mm RHS 4 x 32mm Bottom
Mounting Orientation	Horizontal or Vertical (TX to top)	Horizontal or Vertical (TX to top)
Mains Switch	100A Double Pole	100A Double Pole
MCB	63A C Type Single Pole	N/A
Status Indication	Optimising LED	Optimising LED
Enclosure	Mild Steel Powder Coated	Mild Steel Powder Coated
Colour	Cream (RAL 9010)	Cream (RAL 9010)
Ingress Protection	IP31	IP31
Standards	2006/95/EC Low Voltage Directive 89/336/EEC EMC Directive	2006/95/EC Low Voltage Directive 89/336/EEC EMC Directive
Guarantee	10 Years	10 Years



PEMC200i COMMERCIAL OPTIMISER