

PowerWAVE EL

(Single-phase 500 VA–30 kVA)
Three-phase 10–160 kVA)



PowerWAVE EL

Designed to the latest European
EN 50171

True double-conversion and PWM
technology

Inverter stage output galvanic isolation
transformer included

Capable of 120% continuous overload
to meet European emergency lighting
regulations

Parallel mode operation (optional) (hot
standby, redundant, symmetric parallel)

Large charger for faster recharge of
batteries

Maintenance bypass (for complete
isolation of the inverter during
maintenance)

Unique inverter design to suit high inrush
lighting loads

Bypass to load (changeover mode) user
selectable

LCD panel providing accurate detailed
information about load, batteries and
inverter with advanced diagnostics

RS232 and dry contacts for
communication and remote monitoring

Efficient power for
emergency lighting
and safety equipment.



Addresses the need for a range of high performance static inverters manufactured using state-of-the-art technology to give your operation the peace of mind it needs.

Boasting true double-conversion and PWM technology, the entire range is capable of 120% continuous overload and has optional parallel modes. KUP's most intelligent battery monitoring maximises service life and a galvanic isolation transformer is included as standard.



Common applications

- Emergency lighting systems
- Central power supply systems
- Fire alarm and safety systems
- System and battery test function
- Hospital and medical systems
- Cinemas and entertainment venues
- Retail

PowerWAVE EL 100XA series

High performance static inverter (500–3000 VA)

- Wall-mounted and standalone options
- Allows for an internal self-contained battery system capable of supplying standard emergency lighting of 3 hour autonomies
- Fully encapsulated product for lower rated requirements
- High reliability with low maintenance
- Low operating cost
- Wide range of standard ratings available
- Battery options to suit all applications
- Intelligent battery monitoring to maximise service life
- Simple & easy to install with front access

PowerWAVE EL 100 series

Single-phase input and output online static inverter (4–12 kVA)

- Solution for higher power, single-phase loads
- Galvanic isolation transformer at the inverter stage
- High reliability with low maintenance
- Low operating cost
- Wide range of standard ratings available
- Battery options to suit all applications
- Intelligent battery monitoring to maximise service life
- Simple & easy to install with front access



PowerWAVE EL 300 DSP series

Three-phase input and output static inverter (10–160 kVA)

Solution for higher power, three-phase loads

High reliability with low maintenance

Low operating cost

Wide range of standard ratings available

Battery options to suit all applications

Intelligent battery monitoring to maximise service life

Simple & easy to install with front access

IP41 as standard: suitable for harsher environments

BS1 kitemark certified to BS EN 50171



KM 658954
BS EN 50171



PowerWAVE EL MOD series

High performance emergency lighting inverter (4–24kVA)

1/1 and 3/1 configuration via display

Hot-swap power module

True sine wave output

Output configurable to three modes of operation (changeover/inverter/non-maintained)

No break load transfer for use with discharge lamps

Deep discharge protection

Reverse battery polarity protection

Front access for maintenance and repair

Each module automatically equally shares the input and output current; all inverter modules share the batteries

Battery short circuit protection

Battery discharge management, auto-transfer between floating and equal charging, temperature compensation



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