

# QIKPAC Battery

QIKPAC which is a core component of our innovative and patented ANIMATE modular system heralds in a new era of power provision within office and educational environments.

QIKPAC powered furniture can simply be located where needed without needing to worry about having a mains socket nearby. Alternatively our portable QIKPAC Carry enables workers/students to bring power to wherever they wish to work.

By utilising premium lithium-ion cells, a single QIKPAC can drive the TUF-R/HP USB Charger or ARC-H LD wireless charger for multiple hours of continuous use. Capacity can easily be increased by linking multiple QIKPAC units, allowing more time between charges for high current applications such as mobile TV screens\*. Multiple charging options enable QIKPAC's to be recharged in situ or at a charging dock depending on the application.

With this newfound freedom, the workspace or venue becomes a flexible, easily configurable scene, perfect for our new agile ways of working.



## USPs

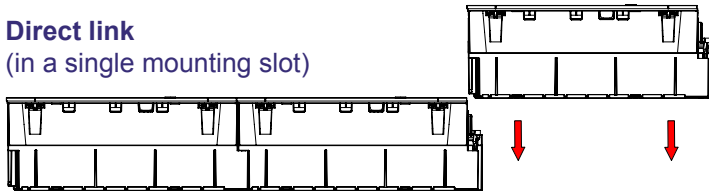
- 240Wh scalable capacity
- Fixed or portable applications
- Certified to IEC & UL standards
- Patented - ANIMATE modular battery system

\*Actual product may differ from that shown, please ask at time of enquiry for up to date information

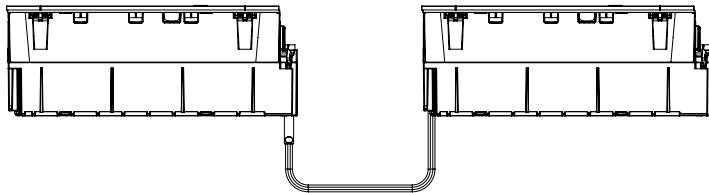
# technical

## Examples of linking batteries to increase capacity

### Direct link (in a single mounting slot)



### Cable linked (if installed in separate locations)



## Product Type

Portable 240Wh lithium-ion battery pack for use in office type environments

## Construction

Premium lithium-ion '18650' cells and control circuitry within a High strength fire retardant polycarbonate body

## Colours

Black or white fascia options

## Power connections:

Wieland GST08 50V 6A DC power in and out connectors

## Charging Options

- QF30 PSU for in-situ charging
- QIKPAC Charger for remote charging 3 x QIKPAC
- Charging Shoes can be built into OEM furniture

## USB charger options

Clip on or remotely located TUF HP A+C module (e.g. QF05 TUF, PICCOLO DC)

## Shipment

QIKPAC batteries are shipped by OE in UN38.3 certified dangerous goods packaging.

## Installation

Integrated QIKFIT system mounting clips for direct in furniture mounting – with optional quick release removal tool

## Recycling

End of life QIKPACs should be recycled in accordance with prevailing regulations for the recycling of portable li-ion battery packs in the country of use

## QIKPAC Carry - for portable use

QIKPAC can optionally be supplied fitted in the QIKPAC portable carry case – see QIKPAC CARRY datasheet

## Quality & Testing

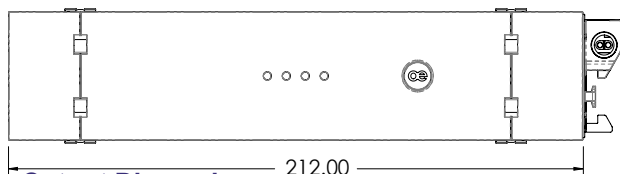
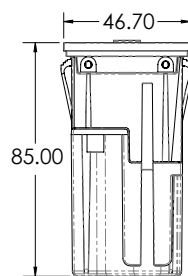
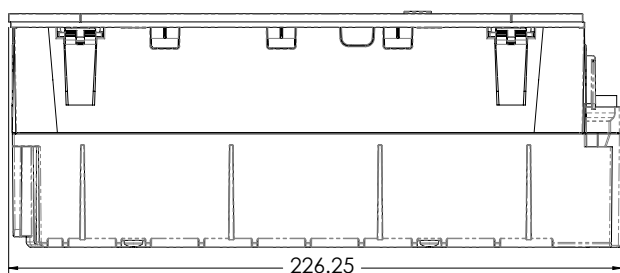
All QIKPAC Battery units are manufactured using ISO9001 quality controlled components and practices and are fully tested before dispatch"

## CE/UKCA marking

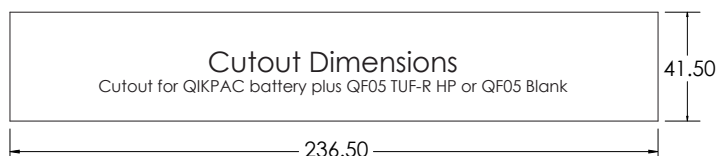
QIKPAC Battery is CE and UKCA marked by OE Electrics as complying with:

- EU Battery Directive 2006/66EC as amended by 2013/56/EU
- Electromagnetic Compatibility Directive 2014/30/EU
- ROHS Directive 2011/65/EU as amended by 2015/863/EU plus the equivalent UK regulations

## Dimensions



## Cutout Dimensions



**For cutout dimensions for multiple batteries and bespoke solutions please contact us**

# technical

## Technical Specifications

### QIKPAC Features

|                     |   |
|---------------------|---|
| <b>Battery Type</b> | Li-Ion  |
| <b>Features</b>     | Short Circuit Protection<br>Over Current Protection<br>Under Voltage Protection<br>Battery Overvoltage Protection<br>Unit Over Temperature Protection |

### Safety

|                         |   |
|-------------------------|---|
| <b>Safety Standards</b> | IEC/UL 62368-1 (Safety)<br>IEC/UL 62133-2 (Li-ion Safety)<br>EN/IEC 61000-6-3 & 61000-6-1 (EMC)<br>FCC 15B (USA-EMC)<br>UN38.3 (Shipping) |
|-------------------------|---|

### Temperature Ranges

|                               |  |
|-------------------------------|--|
| <b>Operating Temperature</b>  | 10 - 35C   |
| <b>Discharging Range (°C)</b> | -20°C to 60°C  |
| <b>Charging Range (°C)</b>    | 5°C to 45°C  |
| <b>Storage Temperature</b>    | Up to 3 Months: -20°C to 40°C<br>Longer Duration: 10°C to 20°C (Ideal)<br>QIKPAC should be stored at 40-60% charge (2 LEDs) in a low humidity environment (less than 70% RH) with no corrosive gases and no condensation on cells and charged yearly to keep them at this level. |

### Charging & Life Span


















|                                |  |
|--------------------------------|--|
| <b>Estimated Charge Cycles</b> | 1,500 (With 70% capacity remaining, will depend on type of load and use) |
| <b>Estimated Life Span</b>     | 5+ years   |

### QIKPAC Comparison

|   | Single Battery                | 2 x Batteries                   | 3 x Batteries                   | 4 x Batteries                   | QIKDOC (works with QIKPAC CARRY) |
|---|-------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|
| <b>Battery Capacity</b>                           | 240Wh (Equivalent to 9540mAh) | 480Wh (Equivalent to 19 080mAh) | 710Wh (Equivalent to 28 620mAh) | 960Wh (Equivalent to 38 160mAh) | 240Wh (Equivalent to 9540mAh)    |
| <b>Useable Capacity</b>                           | 200Wh                         | 400Wh                           | 600Wh                           | 800Wh                           | 200Wh                            |
| <b>Output Voltage</b>                             | 21.0V to 29.4V                | 21.0V to 29.4V                  | 21.0V to 29.4V                  | 21.0V to 29.4V                  | 21.0V to 29.4V                   |
| <b>Input Voltage</b>                              | 30.0V (Maximum)               | 30.0V (Maximum)                 | 30.0V (Maximum)                 | 30.0V (Maximum)                 | 30.0V (Maximum)                  |
| <b>Maximum Output Current Per Port</b>            | 6A                            | 6A                              | 6A                              | 6A                              | 6A                               |
| <b>Total Shared Maximum Output Current*</b>       | 12A                           | 12A                             | 12A                             | 12A                             | 12A                              |
| <b>GST08 Outputs</b>                              | 2                             | 3                               | 4                               | 5                               | 4                                |
| <b>Weight</b>                                     | 1.3kg                         | 2.6kg                           | 3.9kg                           | 5.2kg                           | 2.2kg                            |
| <b>Charging Times (using QIKPAC Charger Base)</b> | 5-7 hours                     | 6-8 hours                       | 9-11 hours                      | 13-15hours                      | 5-7 hours                        |

\* For combined outputs above 6A system design must be checked by OE.

## LED Functions

| LED Function                             | LED Code  | Description  |
|--|---|--|
| Short Button press                       |    | 80-100% ON for 5 Second after button press   |
| Short Button press                       |    | 60-80% ON for 5 Second after button press  |
| Short Button press                       |    | 40-60% ON for 5 Second after button press  |
| Short Button press                       |    | 20-40% ON for 5 Second after button press  |
|  |    | 0-20% constantly ON without button press   |
| Charger plugged in but Battery FULL      |    | 100% Battery LEDs ON   |
| Charging                                 |    | 80-100% ON FLASHING  |
| Charging                                 |    | 60-80% ON FLASHING   |
| Charging                                 |    | 40-60% ON FLASHING   |
| Charging                                 |    | 20-40% ON FLASHING   |
| Charging                                 |    | 0-20% ON FLASHING  |
| Fault mode                               |   | Over current fault on one of the ports. All outputs will remain disabled until cleared by a short button press.<br>Current range allowed from a single port:<br>6.5 - 10A allowed for up to 20 seconds<br>10 - 19A allowed for up to 5 seconds<br>Combined current of over 19 Amps will cause QIKPAC to immediately turn off (after 320ms delay) |
| Fault mode                               |  | Maximum or minimum charging temperature limit reached. (Charge: +5 to +45C)<br>QIKPAC will not be charged while in this mode however it can still supply power to connected devices.<br>LEDs indication happens only if a power supply is connected.<br>Fault will be cleared automatically once battery cells are within temperature range.     |
| Fault mode                               |  | Maximum or minimum discharge temperature limit reached (Discharge: -20 to +60C)<br>QIKPAC will not supply power nor receive charge from the PSU in this mode.<br>Fault will be cleared automatically once battery cells are within temperature range.  |
| Turning On / Start up                    |  | Press and hold for 5 seconds - 4 Pink LEDs light up from left to right and will turn on in 1 second intervals. All LEDs on indicates a successful startup.   |
| Ship mode / Shut down                    |  | Press and hold for 5 seconds - 4 Pink LEDs light up then switch off one at a time from right to left   |
| Ship Mode                                |  | Short Button Press, one LED lights for 1 second - this confirms the QIKPAC is in ship mode. This is the mode QIKPAC will arrive in, when shipped.  |
| High inrush current mode                 |   | This mode activates automatically on every startup and remains effective for 60 seconds to allow devices with high in-rush current demand to startup.  |
| Button Function                          | Time Frame  | Action / Description   |
| Turn QIKPAC on (from ship mode)          | 4 Seconds   | <b>Press button (approx. 4 secs):</b><br>Until you see LED lighting up in turn, then release button. If all 4 LEDs light up then a successful startup is indicated. After a few seconds the battery level will then appear.  |
| Battery level status (when QIKPAC is On) | 0 - 5 Seconds   | <b>Short Button Press (0-5 secs):</b><br>Display Battery level for 5 seconds, as well as clearing any over current fault.  |
| Ship mode / Shut Down / Power saver      | 5 - 15 Seconds  | <b>Press &amp; hold then release (5-15 secs):</b><br>Activating Ship mode / Shut Down<br>Suitable for shipping, saving power while not being in use or when the product is not going to be used for a long time.   |