

JCB POWER PACK 1.25QE – 1.50QE



DISCLAIMER

> This Quick Reference Guide is to provide quick and simple information to the Operator and does not include any health and safety aspects. In addition, because of our continual development of machines, features described in this Quick Reference Guide may differ from those on your machine. No errors and emissions be entirely ruled out.

> This Quick Reference Guide **DOES NOT** replace the Operators Manual. You **MUST** read **ALL** the disclaimers and safety and other instructions in the Operators Manual before initially operating this product. Accordingly, no legal claims can be entertained on the basis of the data, illustrations or descriptions in this Quick Reference Guide.

This machine should not be operated by any person who isn't appropriately qualified or had the appropriate training.

Operation of this machine without periodic maintenance could cause it to malfunction.

For more information please contact your JCB Dealer.

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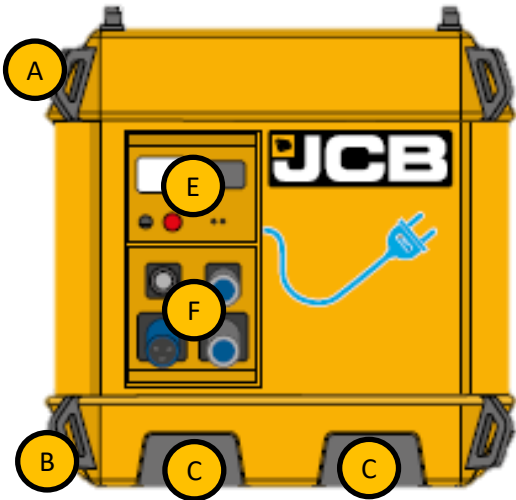
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DIMENSIONS & VOLUMES

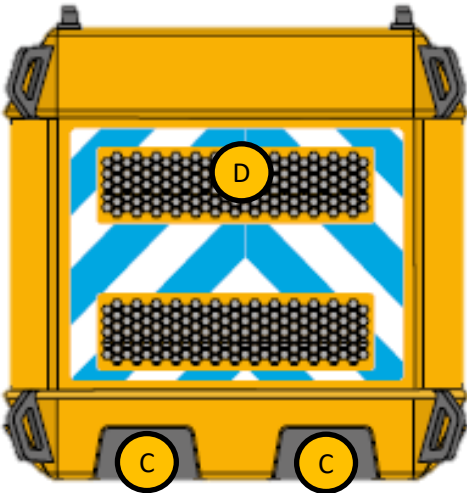
MODEL	1.25QE	1.50QE
Single Phase Output – V	230	230
Total Storage Capacity - kWhr	23	46
Maximum Recommended Depth Of Discharge - %	90	90
Capacity To 90% Depth Of Discharge - kWhr	20	41
Continuous Output At 25°C - kW	8	8
Length	1000	1000
Width	1000	1000
Height	1000	1000
Weight	530	665



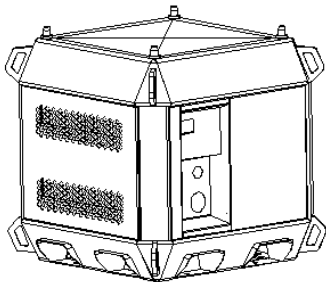
KEY COMPONENTS



A	Lifting Points (x4)
B	Tie down points (x4)
C	Fork pockets
D	Ventilation grilles
E	Control
F	Connections

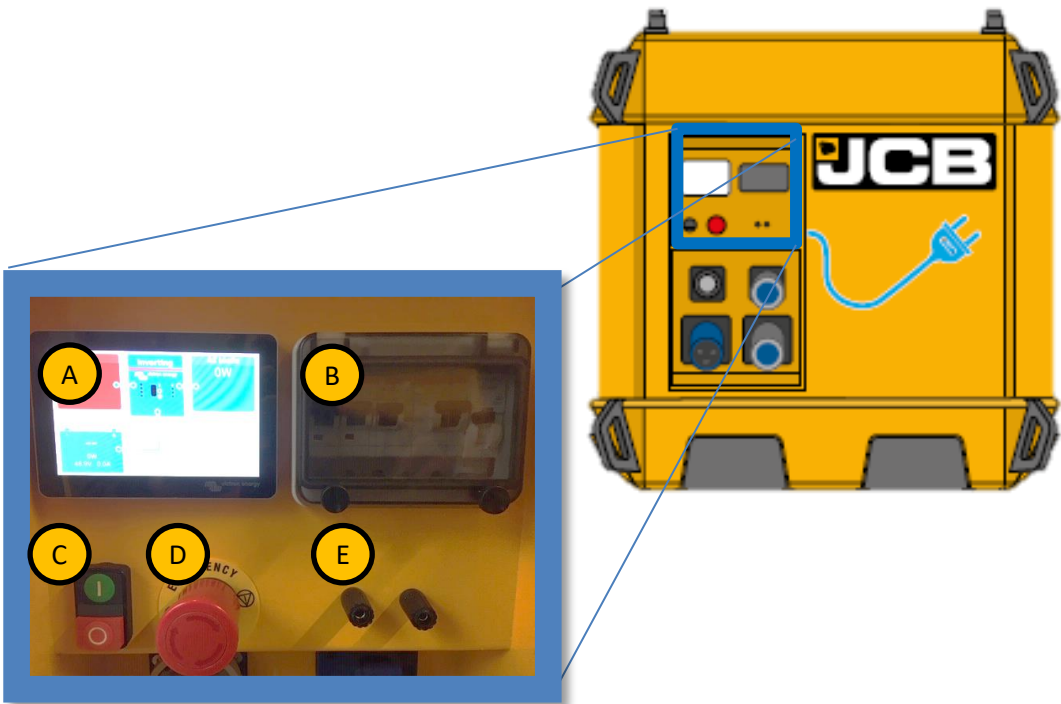


Side View



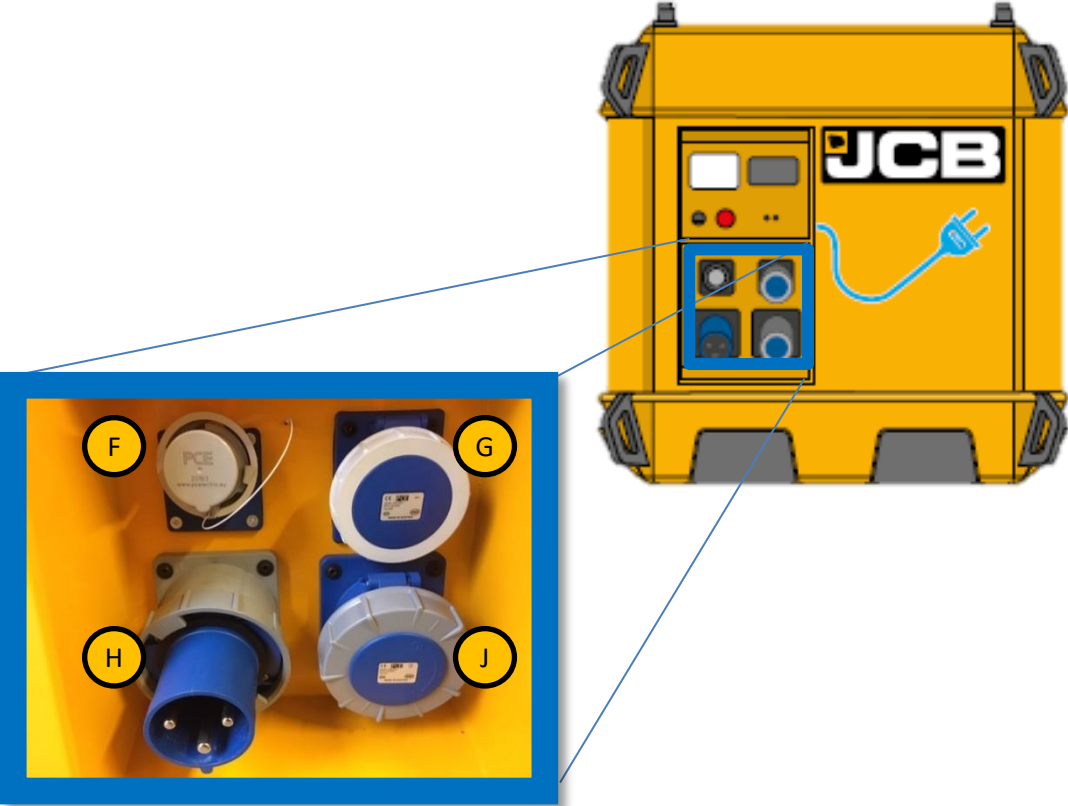
Isometric view for clarity

KEY COMPONENTS - CONTROLS



A	Control Screen
B	MCB
C	ON / OFF Buttons
D	Emergency Stop
E	Generator Autostart Terminals

KEY COMPONENTS - CONNECTIONS



F	16A Maintenance Charge Connection
G	32A Power Out
H	63A Charge Connection
J	63A Power Out

GENERAL CHECKS

Before Use

After correct installation of the unit, the power pack must be fully checked over before first starting can be attempted. Points to check include:

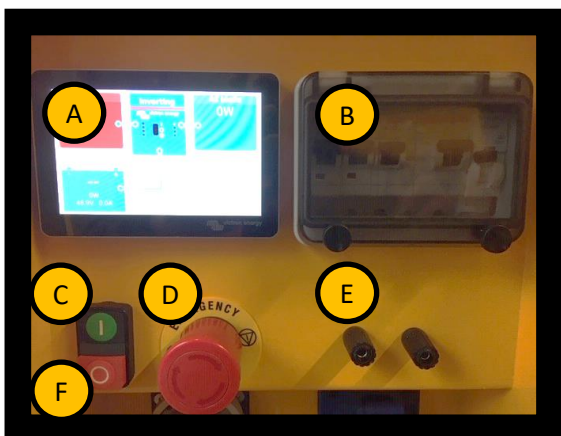
- A visual inspection for signs of damage.
- Ensure all ventilation grilles are unobstructed (300mm free air recommendation).
- Check the load cables to ensure all connections are firmly installed in the correct position, and that wires are in good condition.
- Ensure the power pack is located on flat level ground.
- Ensure the power pack is located to prevent sitting in standing water.
- Ensure that the power pack is located so as to avoid impact damage

IMPORTANT

If you are using a generator to recharge your JCB Power Pack then it is essential that the generator is correctly sized. This should be either a dedicated single phase generator, or a 3 phase generator that is suitably sized to prevent an excessive phase imbalance.



START UP INSTRUCTIONS



IMPORTANT

Pressing the red OFF button (F) will isolate the batteries but will still allow passthru from the AC input to the load.

The Emergency stop (D) will isolate the output connections from all sources

1. Ensure MCB (B) are in the ON position.

2. Press and hold the Green START button (C) for 10-20 seconds until the start relay engages.

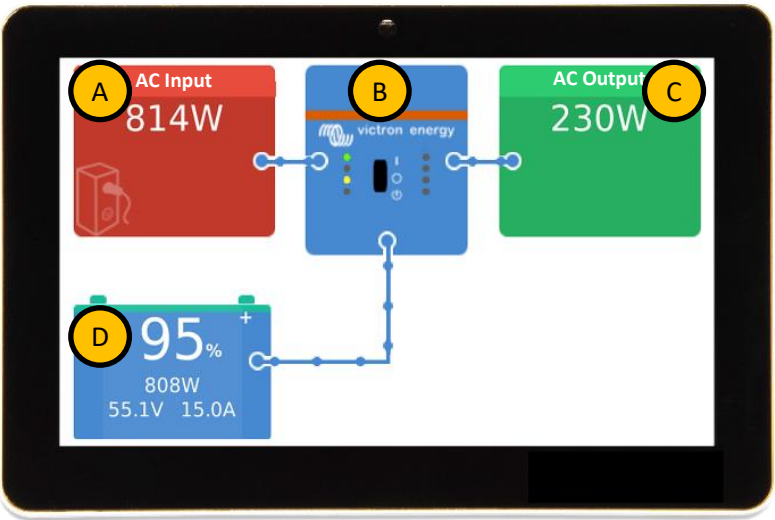
3. Control panel (A) will start its initialisation (c20 seconds).

4. Once active the control panel display will indicate current status.

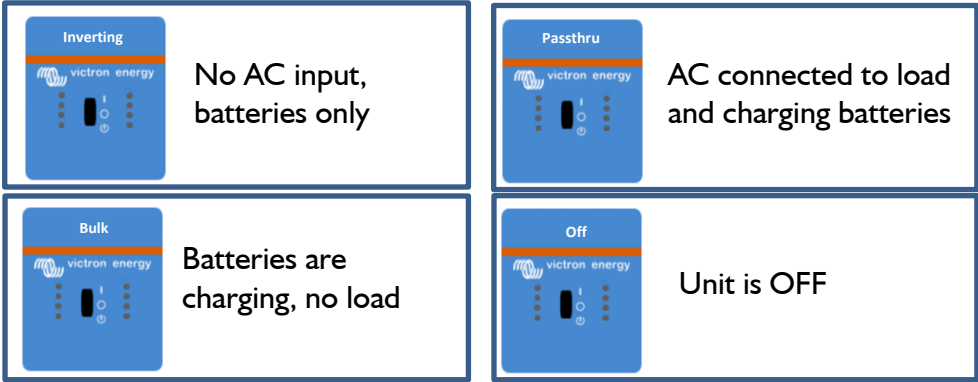
5. Unit is now connected to load.

NOTE: Generator autostart terminals (E) will energise if site load exceeds 8kW (de-energise once it drops back below 6kW) or if the battery level drops below 5% (de-energise above 95%)

CONTROL OVERVIEW



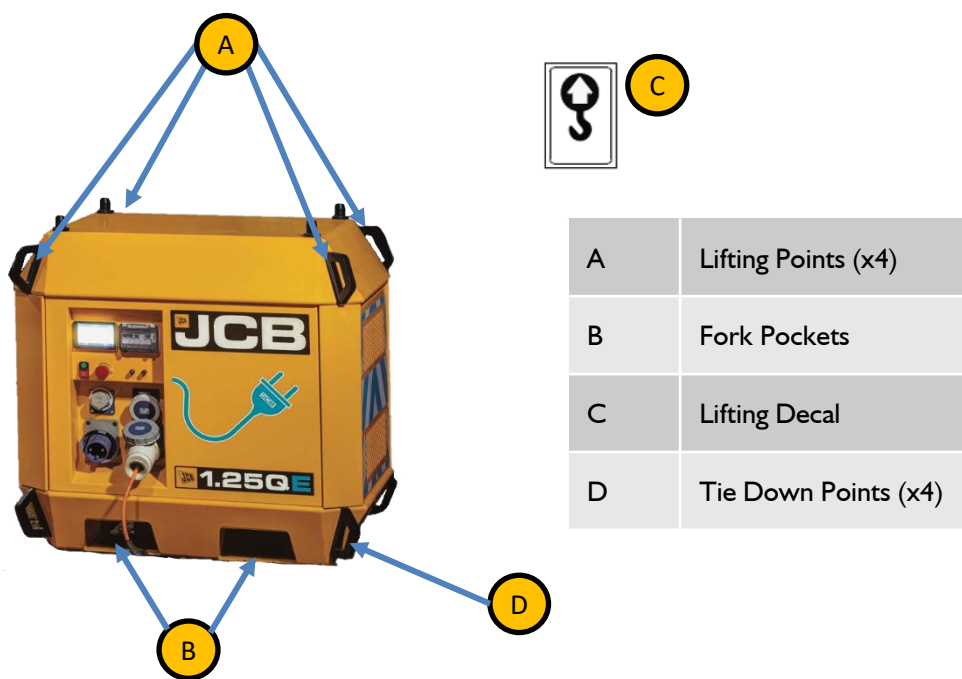
A	Input Supply	C	Output Supply
B	Inverter Status (detail below)	D	Battery Status



LIFTING

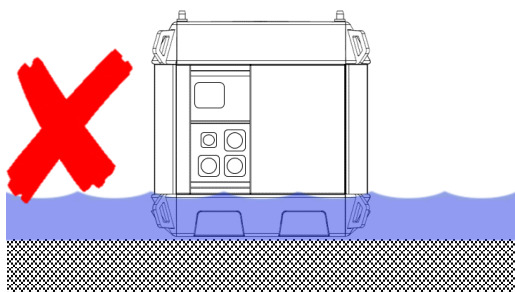
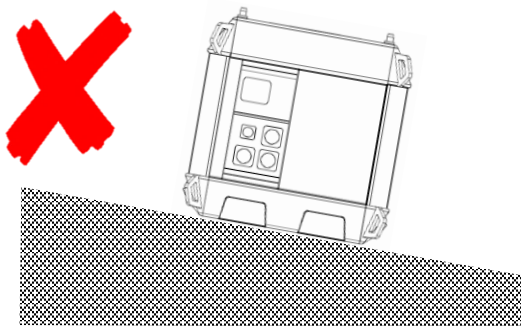
The power pack should only be lifted using the designated lifting points or the fork pockets where provided.

For movement on site the fork pockets enable the power pack to be lifted and shifted by forklift or telescopic handler. The fork pockets are sized and spaced to allow lifting by equipment with a stand fork carriage.



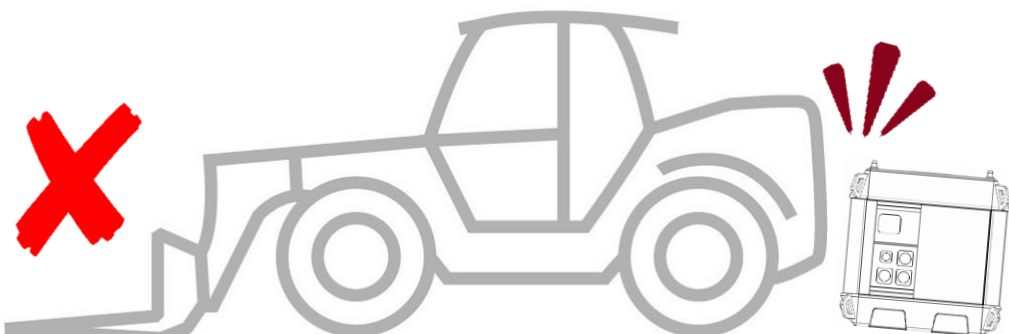
NOTE: Always ensure that lifting equipment is rated to lift the load. Weights are shown on the power pack rating plate. While both the fork pockets and lifting frame are rated to allow lifting, the operator needs to ensure that they have adequate lifting capacity.

POSITIONING



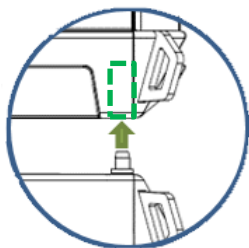
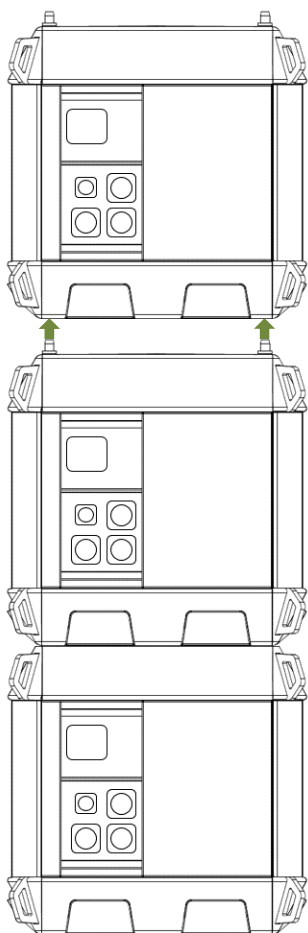
Your JCB power pack has a rugged design and is suited for life on a hard working site, however there are precautions that should be undertaken to ensure a long service life

- Units should be located on flat level ground
- If the machine is sat in standing/rising water then if the level reaches 200mm the performance of the machine may be compromised. Where possible position the machine on higher ground.
- Units should be positioned to minimise the risk of impact damage



STACKING

The JCB power pack is designed to be stackable up to 2 units in use or 3 units in storage. Model 1.25QE and 1.50QE are interchangeable.



NOTE: When stacking equipment always ensure that the roof mounted securing pegs are engaged with the sleeves on the underside of the unit being stacked

IMPORTANT

Stacked units **MUST** be sited on flat, level, stable ground

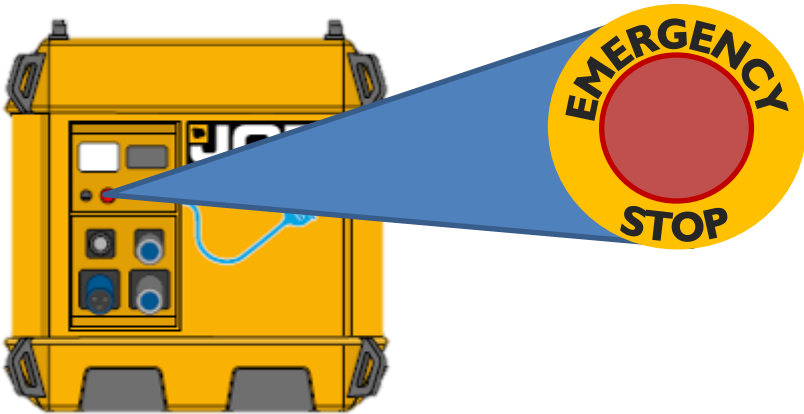
EMERGENCY STOP

A machine isolation button/emergency stop button is mounted externally on the canopy. If pressed, all machine systems will stop completely.

Use the emergency stop button in the **case of an emergency**.

Under normal operation the power pack should be turned off using the STOP button. This can be clarified in the Control Panel section of your Operators Manual.

The emergency stop button is a twist to release type and will need a $\frac{1}{4}$ turn clockwise to disengage.



IMPORTANT

Pressing the red OFF button will isolate the batteries but will still allow passthru from the AC input to the load.

The Emergency Stop will isolate the output connections from all sources

FAQ

1. Is the Power Pack suitable for 3 phase loads?

Power Pack models 1.25QE and 1.50QE are only capable of a single phase, 230V, 50Hz output.

2. How long will it run for?

This will depend on the load that is applied. 1.25QE has 21kWhr of useable capacity while the 1.50QE has 41kWhr of useable capacity. Put simply, a 2kW load would drain the batteries in either 10 or 20 hours depending on you Power Pack model. If you apply more load it will drain faster, less load and it will drain slower.

3. How long does it take to recharge?

This will vary depending on several factors including battery levels, ambient temperatures and the size of supply you have available. Based on a 32A input and a full recharge from 10-100%, the typical recharge time would be 3 hours for 1.25QE or 6 hours for 1.50QE

4. How much power does it have?

The inverter output is rated at 8kW @ 230V single phase.

5. What can I use to recharge my Power Pack?

Your Power Pack can be recharged via either the main 63A input or by the 16A trickle charge connection. Any single phase, 230V, 50Hz supply connected to these input connections will allow the Power Pack to recharge

6. Will the Power Pack automatically start my site generator?

Your Power Pack has 2 volt free contacts mounted on the control section (see page 6). These will be activated if the site load exceeds 8kW or if the battery capacity falls to 5%.

7. Why is my generator 'hunting' when connected to my Power Pack?

You should check that your generator is correctly sized. The JCB Power Pack will draw up to 7kW of single phase power when recharging. Your generator should be able to supply this load without unduly loading a single phase.

8. What maintenance does it need?

Apart from periodic inspections the Power Pack is maintenance free. The only checks that you will need to make is that the unit has charge.

9. Can I add solar panels to my Power Pack?

A solar input is an optional feature on the JCB Power Pack. Please contact your supplying dealer for confirmation of individual model specifications.

10. How much noise does it make?

There may be a little bit of fan noise, but to all intents and purposes, the system is silent in operation



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Please consult your manual for full information or consult your local dealer