



JCB POWER PACK

3.50QE – 3.75QE – 3.100QE



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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.

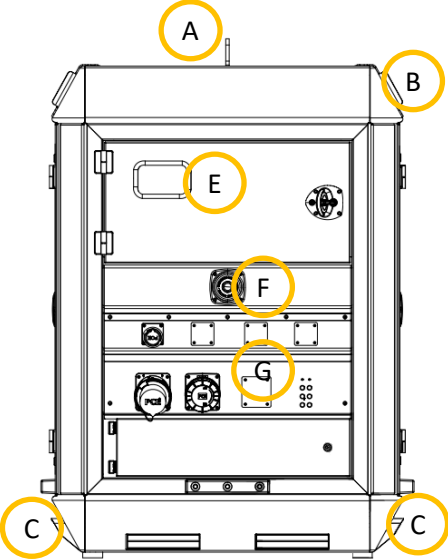
For more information please contact your JCB Dealer.

DIMENSIONS & VOLUMES

MODEL	3.50QE	3.75QE	3.100QE
OUTPUT – V	400	400	400
TOTAL STORAGE CAPACITY - kWh	46	69	104
MAXIMUM DEPTH OF DISCHARGE - %	90	90	90
CAPACITY TO 90% DEPTH OF DISCHARGE - kWh	41	62	94
RECOMMENDED MAX OUTPUT - kW	20	30	36
LENGTH	2175	2175	2175
WIDTH	1307	1307	1307
HEIGHT	1815	1815	1815
WEIGHT	1550	1700	2000

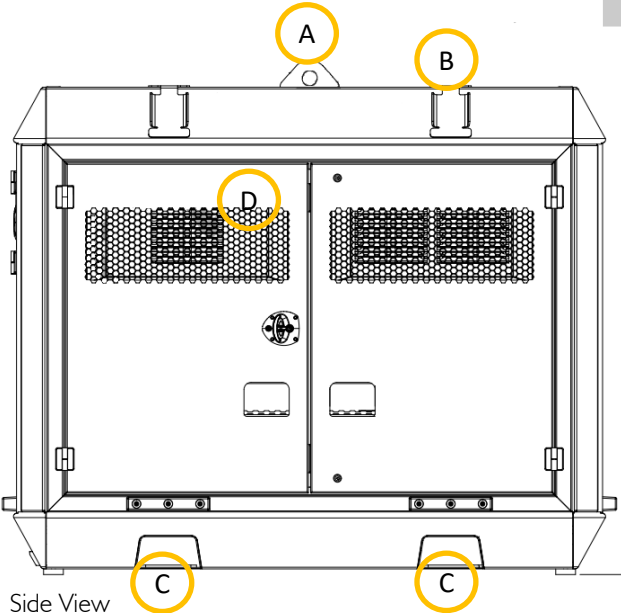


KEY COMPONENTS - EXTERNAL

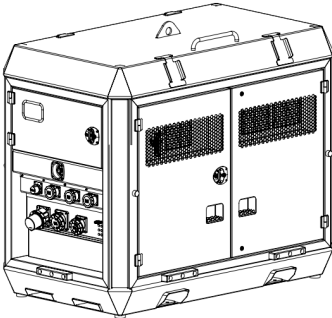


Front View

A	Lifting Point
B	Strap Guides
C	Fork pockets
D	Ventilation grilles
E	Control Panel
F	Emergency Stop
G	Power Connections



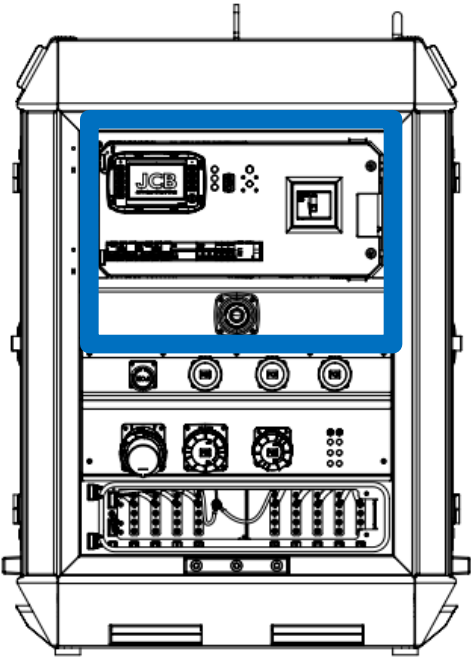
Side View



Isometric view for clarity

KEY COMPONENTS - CONTROLS

A	Control Screen (2 styles)
B	ON / OFF Buttons
C	MCCB
D	Emergency Stop
E	MCB

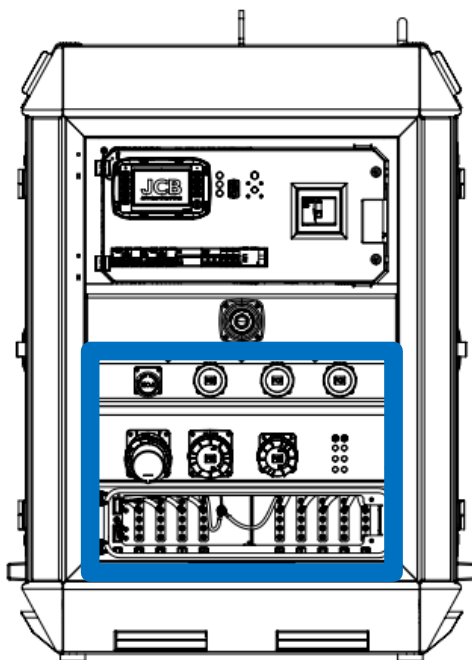


Control panel and cable connection doors removed for clarity

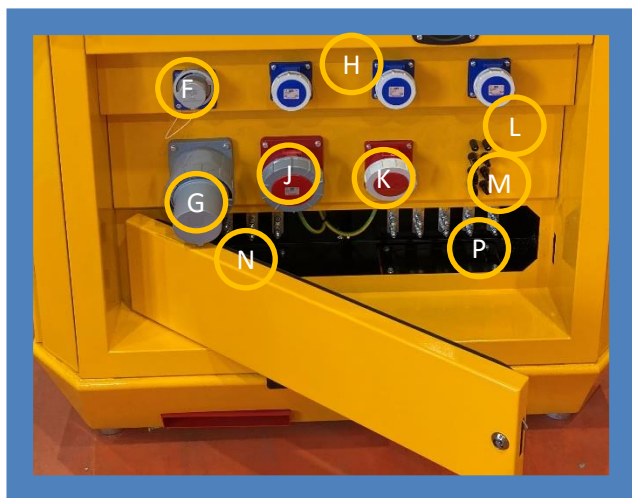


KEY COMPONENTS - CONTROLS

F	Single phase 16A Input
G	Three phase 125A input
H	Single Phase Output (either 3 x 32A or 3 x 16A)
J	Three phase 125A Output
K	Three Phase Output (either 63A or 32A)
L	Genset autostart terminals
M	Solar inputs
N	Input busbar
P	Output busbar



Control panel and cable connection doors removed for clarity



GENERAL CHECKS

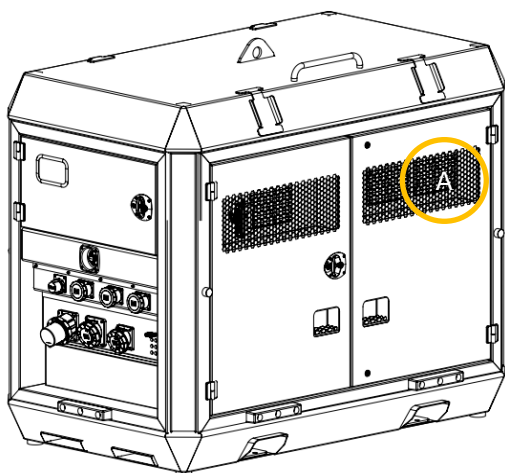
Before Use

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.

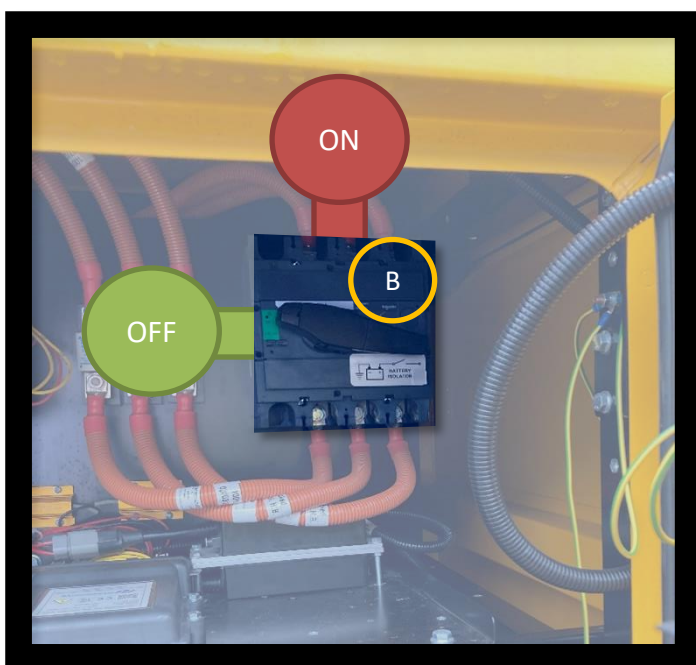


START UP INSTRUCTIONS



1. Open door (A) to access the power pack

2. Ensure DC isolator (B) is in the ON position



START UP INSTRUCTIONS



IMPORTANT

Pressing the red OFF button (B) 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

3. Ensure MCB (E) are in the ON position.

4. Press and hold the Green START button (B) for 10-20 seconds until the green 'system available' lamp illuminates.

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

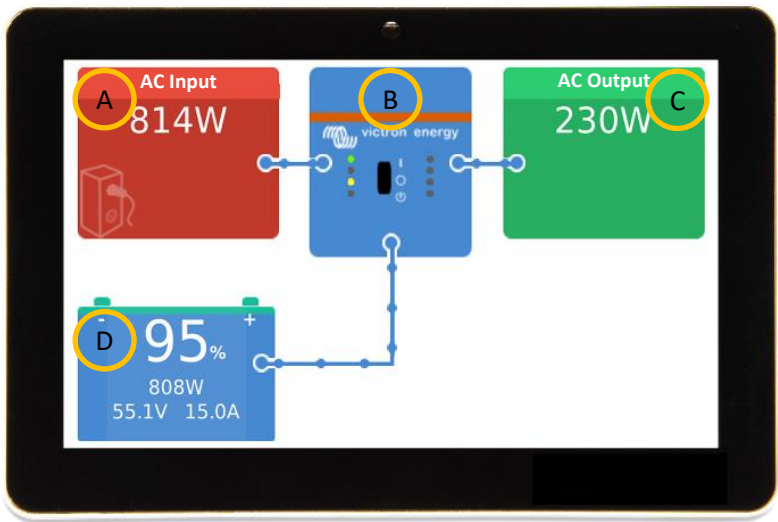
6. Once active the control panel display will indicate current status.

7. MCCB (C) can now be closed manually

8. Outputs (H) (J) (K) & (P) are now live (provided they have not been inhibited by the timer controls).





NOTE: Generator autostart terminals (L) will energise if site load exceeds the preset start limit (de-energise once it drops back below) or if the battery level drops below 5% (de-energise above 95%)

VICTRON CONTROL OVERVIEW

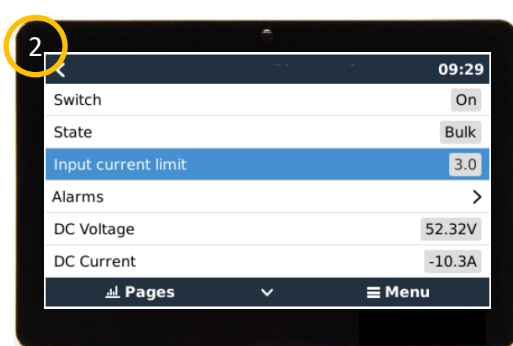
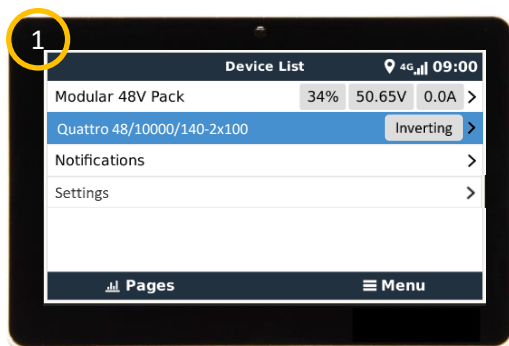


NOTE: if you are not presented with this screen after startup then please swipe left or right to cycle to this screen.

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

 <p>Inverting</p> <p>No AC input, batteries only</p>	 <p>Passthru</p> <p>AC connected to load. Batteries are disconnected</p>
 <p>Bulk</p> <p>Batteries are charging</p>	 <p>Off</p> <p>Unit is OFF</p>

VICTRON INITIAL SETUP



Setting the Input current limit

By touching the front screen the **Pages** and **Menu** options “pop up”

Press the Menu  **Menu**

Press **Quattro**

Adjust the input current limit by pressing it to match the supply that will be connected to the machine 0-100A

NOTE

This parameter is to insure the unit will only draw the requested amount of current (Amps) from the supply, e.g. if the unit is connected to a 63A mains supply then set this limit it 63A. The maximum input limit is 100A



Setting up Distributed Voltage and Current Control - DVCC

By touching the front screen the **Pages** and **Menu** options “pop up”

Press the Menu  **Menu**

Press **Settings**

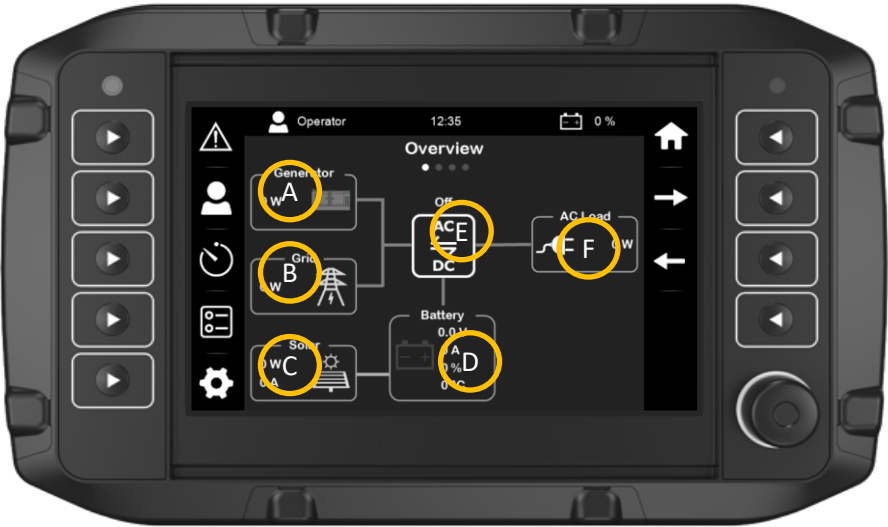
Press **DVCC**

Adjust the Maximum charge current from 0A - 600A

NOTE

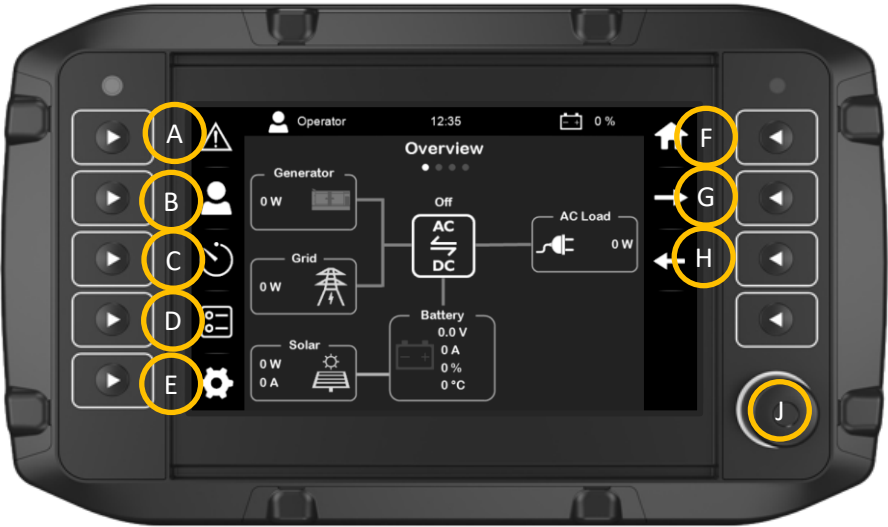
Changing the DVCC will change the amount of current that is used to charge the batteries. This setting can be adjusted to maintain stability of a generator. This setting does not change the amount of input current limit.

DSE CONTROL OVERVIEW



A	Generator Input Supply
B	Mains Input Supply
C	Solar Input Supply (optional)
D	Battery Status
E	Inverter Status
F	Output Supply

DSE CONTROL OVERVIEW



A	Alerts
B	User Profile
C	Socket Timer Setup
D	Device List
E	Settings
F	Home
G	Scroll Right
H	Scroll Left
J	Navigate/Push to Activate

DEEP SEA INITIAL SETUP



Enabling Installer privileges

On the screen press User button 

Press the scroll wheel to change the user

Scroll to Installer

Enter PIN using the scroll wheel (Default 1000)

Press the Home button  Notice the top of the screen changes to Installer

NOTE

Once initial setup is complete the system should be reset to Operator mode



Setting Maximum Input Limit

On the Home screen press the Setting button 

Move to the second page 

Use the scroll wheel to scroll through the settings.

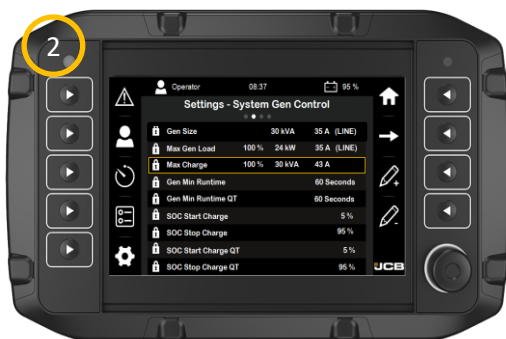
Using the pencil buttons the settings can be changed  

Adjust the Gen Size kVA setting to match the size of Generator connected

Adjust the Max Gen load % setting (0-100%)

NOTE

This parameter is to insure the unit will only draw the requested amount of current (Amps) from the supply, e.g. if the unit is connected to a 63A mains supply then set this limit it 63A. The maximum input limit is 100A.



Setting Maximum Charge Limit

On the Home screen press the Setting button 

Move to the second page 

Use the scroll wheel to scroll through the settings.

Using the pencil buttons the settings can be changed  

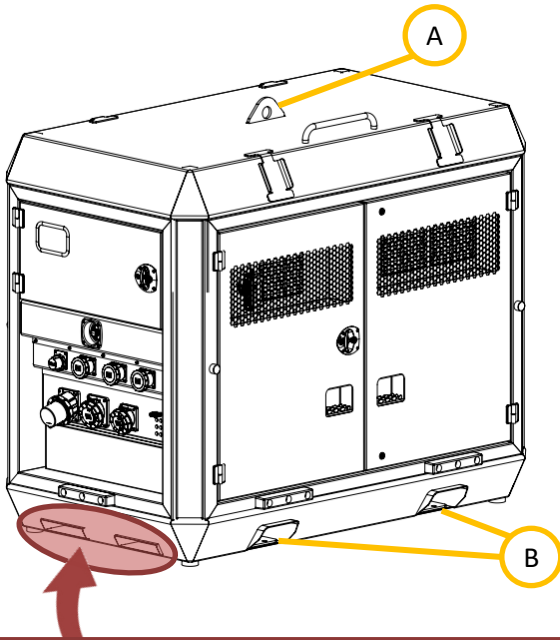
Adjust the Max Charge % setting (0-100%)

NOTE

Changing the Max Charge % will change the amount of current that is used to charge the batteries. This setting can be adjusted to maintain stability of a generator. This setting does not change the amount of input current limit.

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 standard fork carriage.



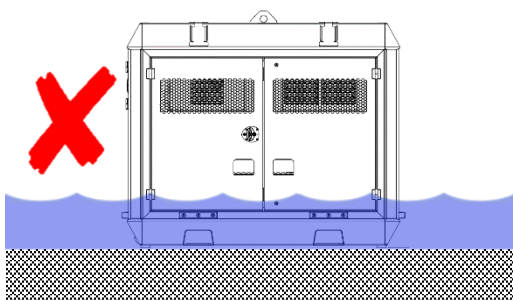
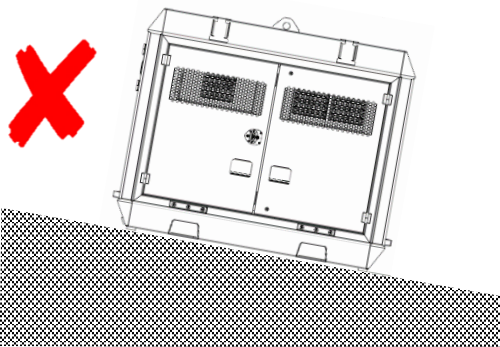
A	Lifting Points
B	Fork Pockets
C	Lifting Decal

WARNING - Apertures are for cable entry and are not fork lift points.

NOTE

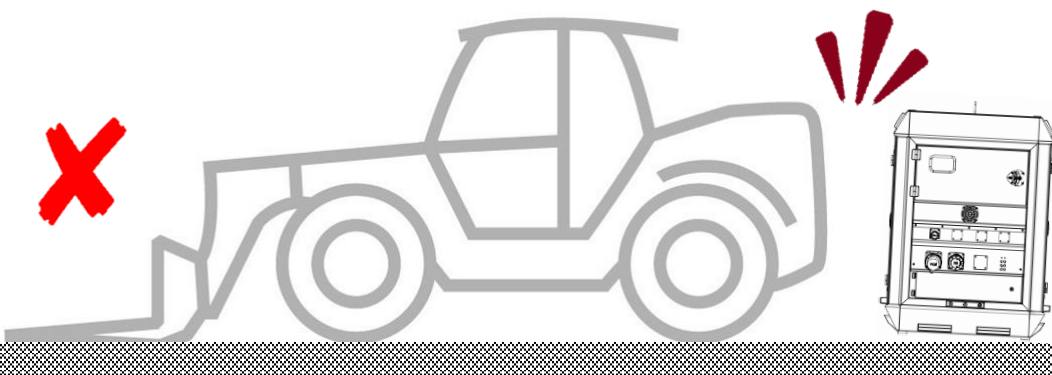
Always ensure that lifting equipment is rated to lift the load. Weights are shown on the power pack rating plate. While both the fork pockets and lifting frame are rated to allow lifting, the operator needs to ensure that they have adequate lifting capacity.

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
- Units should be kept in positions where there is no chance of standing water
- Units should be positioned to minimise the risk of impact damage



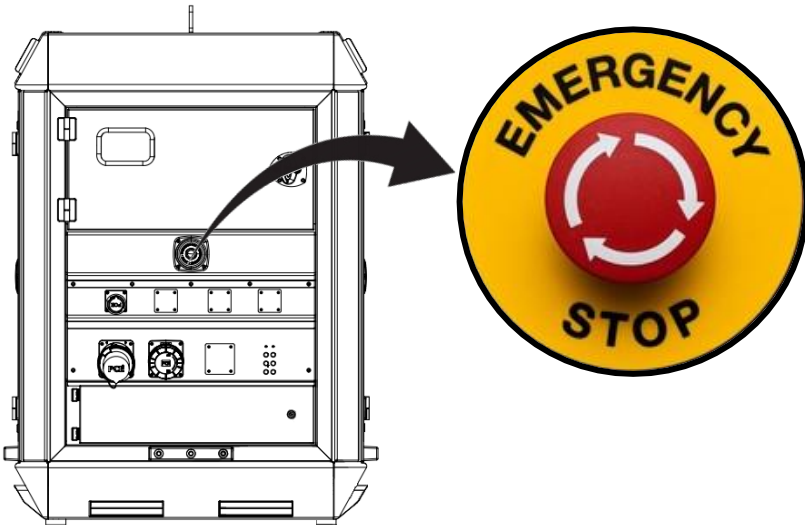
EMERGENCY STOP

An 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



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JCB Sales Limited, Rocester, Staffordshire, United Kingdom ST14
5JP Tel: +44 1889 590312 Email: salesinfo@jcb.com

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