

Dumarey Flybrid

PEAK Power 200

Specification



Energy stored, power delivered,
savings made

Features

- Electrically connected flywheel energy storage system.
- Enables generator downsizing with subsequent fuel and CO₂ savings.
- 85kW of real power and up to 133kVA available to support generator for around 5 seconds.
- Power factor correction and Power monitoring with external CT clamps.
- Designed for 10 years of life and over 15 million full charge-discharge cycles.
- System response time less than 0.03 seconds.
- Power limit, frequency control and voltage control modes.
- Connection terminal 125A IEC or 800A Powersafe options.
- Remote communication, monitoring, control & diagnostics.
- Single point central lifting eye and fork pockets.
- HMI with user-friendly GUI.
- CE & UKCA certified.

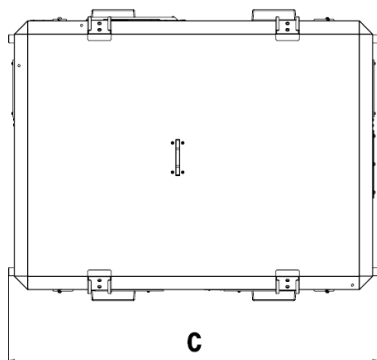


Control Panel

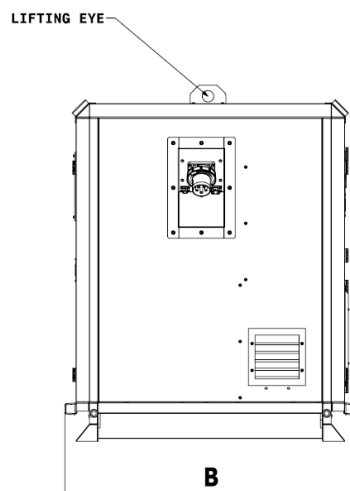
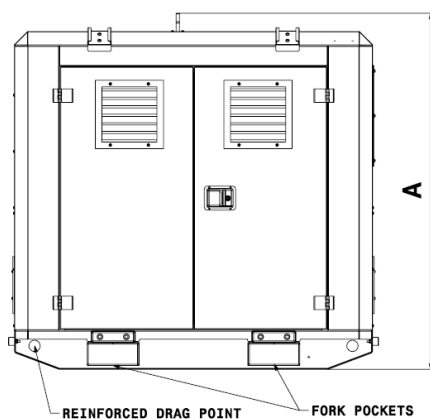
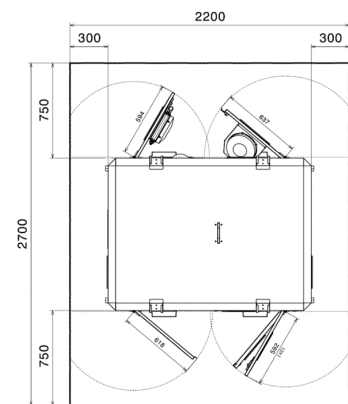


- 4.3" display complete with a custom interface to provide intuitive and robust operation.
- Power, voltage and frequency data for plant, generator and energy storage system.
- Flywheel module parameters: State of Charge (%), Oil Pressure, Oil Temperature, Vacuum Level.
- Event log management and diagnostics.
- Alarms and faults, including: oil pressure, oil temperature, vacuum and emergency stop button.
- Integrated start/stop based on schedule timing.
- Communications: Cloud based telemetry tool using on board 3G/4G router.

Dimensions & Weight



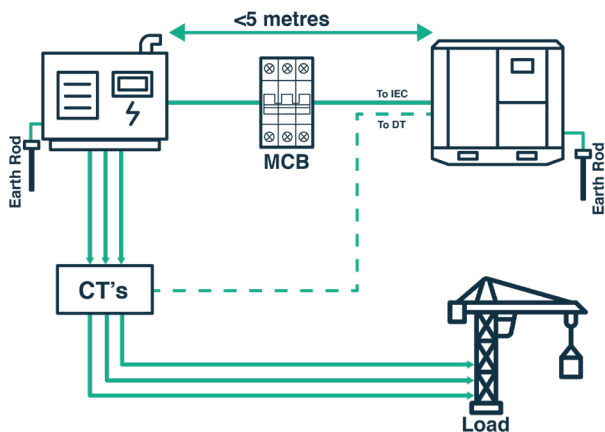
PP200	
A	1591mm
B	1300mm
C	1654mm
Mass	1280kg



Dumarey Flybrid recommend a space of 2700mm x 2200mm be left around the unit. This is to ensure that there is enough space to open the front and rear service doors incase any components need to be inspected or replaced.

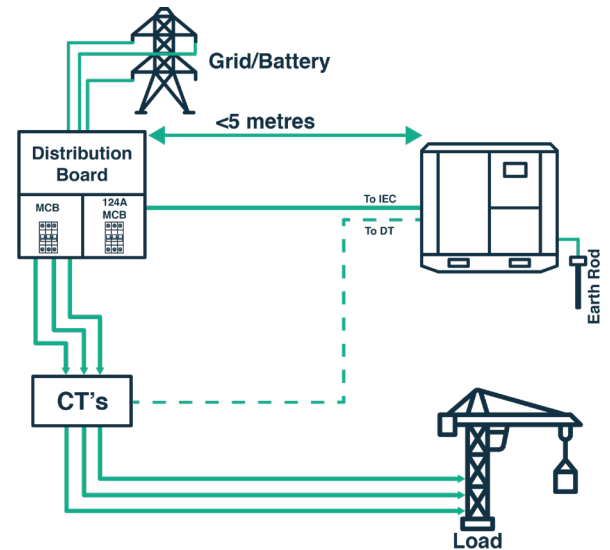
Installation

Diesel Generator



PEAK Power 200 reacts to frequency voltage and power changes on the microgrid between power source and application. The PEAK Power 200 can be used alongside a diesel generator or, it can be connected to the grid / battery.

Grid/Battery Connection



Electrical connections

1 x 125A three phase IEC form plug, MCB protected.
Powersafe (Optional)

*Custom distribution options available upon request.

Rapid installation and set-up in under ten minutes.

Specification & Maintenance

General Characteristics

Operating temperature	-20 °C to 45 °C
Acoustic sound pressure level at 1m, 50 Hz (60% SoC)	68 dB(A)
Acoustic sound pressure level at 7m, 50 Hz (60% SoC)	58 dB(A)
Designed Life cycle	80,000 hours

Oil cooling

Oil system capacity	3.0 L
Oil sump capacity	1.0 L

Electrical Characteristics

Peak power rating	85 kW
Peak power rate	2,500 kW/s
Voltage	400/480 V
Frequency	50/60 Hz
Load reaction time	<30 ms
Reactive Power	133 kVAr

Maintenance

Oil and filter service every 12 months

Warranty

2 years from delivery