

# Punch Flybrid PP200

The Punch Flybrid PP200 is a standalone flywheel energy storage system that assists with delivering the peak demands on dynamic electrical loads. The unit consumes a small amount of energy to spin a flywheel which stores energy. This stored energy can be instantly released to deliver the peak demands allowing the power supply to be significantly reduced such as a smaller generator or a smaller mains power supply. This results in significant cost and carbon savings.

The PP200 is positioned next to the power supply or generator and via a 125A 3 phase IEC plug simply connects onto the power supply connections. The unit has a central lifting ring and forklift pockets for easy manoeuvrability.

Please see the table below for example downgraded generator sizes when using the Punch Flybrid PP200.

CRANE MODEL	MIN. GENERATOR REQUIREMENTS	Possible Genset with Punch Flybrid
	kVA	kVA
CTT202-10	150	100
CTT231-12	200	100
CTT332-16	165	100
CTT 361-18	300	175
CTT561/A-32	300	200
CTT721-40	300	200
CTL140-10	165	100
CTL180-16	250	150
CTLH192-12	200	100
CTL260-18	250	175
CTL272/282	285	175
CTL340-24	360	225
CTL430-24	400	250
CTL630B	500	300
CTL650/F-45	500	300
CTL1600	650	320

  

PUNCH 200 POWER	
<b>Summary report</b>	
Customer:	Select Plant Hire
System Serial Number:	3
Site:	Laing O'Rourke, London
Application/Plant:	Terex CTL 1600-66 tower crane
Generator Down sized From:	800 kVA
Generator Down sized To:	320 kVA
Generator Downsizing:	480 kVA
Downsizing Factor:	2.50
Report Period:	25/10/2021 - 31/10/2021
System Run Time:	41 hrs 28 mins
Number of events (power injected):	85
Frequency Stability:	48.71 Hz min 51.57 Hz max
Calculated Fuel Savings:	438.0 litres
Calculated CO2 Savings:	1156.2 kg
Cumulative Period:	12/06/2021 - 31/10/2021
Cumulative hrs System Has Run:	1007 hrs 8 mins
Service Due In:	224 days
Cumulative System Events:	4165
Cumulative Calculation of Fuel Saved:	8494.4 litres
Cumulative Calculation of CO2 Saved:	22425.3 kg
Site Cumulative Period:	11/05/2021 - 31/10/2021
Cumulative Site hrs:	1299 hrs 57 mins
Cumulative System Events on Site:	5425
Cumulative Calculation of Fuel Saved on Site:	10372.3 litres
Cumulative Calculation of CO2 Saved on Site:	27382.8 kg

Not all generators perform in the same way, so in some cases larger size reductions may be possible also increasing the carbon savings.



Please contact Vicky Capper if you would be interested in hiring a Punch Flybrid PP200 Email: [vcapper@selectplanthire.co.uk](mailto:vcapper@selectplanthire.co.uk) Mobile: 07392 120063