AMPD ENERTAINER



The AMPD Enertainer is an advanced, compact and connected energy storage system (ESS) that eliminates or reduces the size of diesel generators on construction sites, promoting an emission-free future for the industry. Available in various configurations, this battery-powered system is designed to meet the tough, dynamic and space-constrained demands of construction sites.

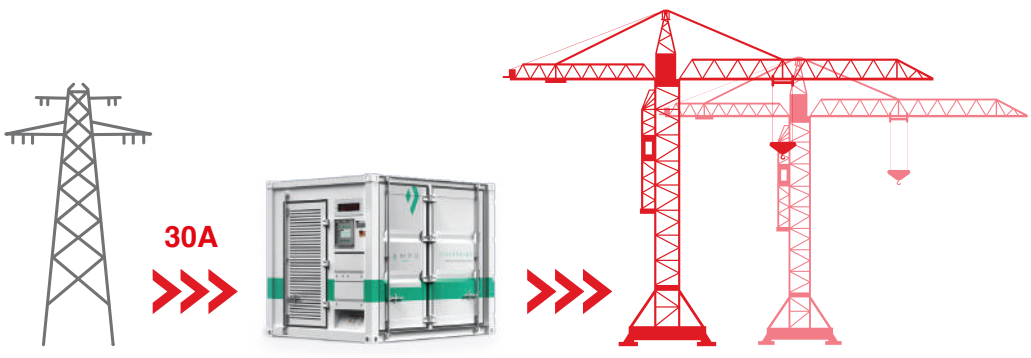
- Significant cost savings
- Minimise carbon footprint
- Maximise productivity
- Ultra low noise productivity
- Enhance on-site safety
- Internet connected 24x7

Product Benefits:

- Eliminates or reduces diesel generators used for large equipment
- Significant savings on running costs and reduction of CO_2 emissions
- Potential for zero on-site emissions if recharged via grid electricity
- Apply for smaller grid connection (potentially even LV instead of HV)
- Saves electricity costs
- 24/7 remote data collection
- Continues to operate during power outages
- Space saving on-site

Up to 90% reduction in CO_2*

How it works:



Continuous max 475A
Peak 570A

Example Applications:

- Tower Cranes
- Hoists
- Lights
- Mast Climbers
- Mortar Silo
- Pumps

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Specification:		
Parameter		**Specification**
Model		**Entertainer M**
Maximum output power	Peak (<1 minute)	570A
	Continuous	475A
Energy storage subsystem chemistry		Lithium-ion NMC
Example applications		Tower cranes, material hoist, passenger hoists, welders, bar benders, grouting station
Rating	Power conversion subsystem type	Heavy-duty, modular power conversion system
	Input voltage	380 - 400 VAC -15%/+7% (3Ph + N + PE)
	Maximum input current	90A
	Output voltage	380 - 400 VAC ± 5% (3Ph + N + PE)
	Output frequency range	50 Hz ± 0.5Hz
Thermal management subsystem	Type	Industrial, wall-mounted recirculating air-conditioning system
	Number of cooling units	2 units
	Refrigerant type	R134a
Mechanical	Dimensions (L x W x H)	3.05m (L) x 2.44m (W) x 2.60m (H) (10' container)
	Net weight	7.4 tons
	Fire extinguishing subsystem	Aerosol fire suppression system
	Ingress protection	Designed to IP 55, NEMA 4/4X* (rain and snow proof)
	Operating temperature range	-20 to 45°C external ambient temperature
	Sound level[3] at full load	85-89dB(A) (32 quieter vs.comparable diesel generator)
	Sound pressure level at full load	57-61dB (A) (at 7 meters)
Connectivity	Mobile Data (4G)	
Expected lifetime	10+ years	



Enernet:

The Enernet is an all-in-one online portal connecting directly to all Enertainers. Enernet provides a deep level of data transparency on the operations of Enertainers and the equipment attached to it anytime, anywhere.

This level of data transparency allows better understanding of the operations and condition of construction equipment while ensuring the uninterrupted provision of energy to construction sites, enabling better, faster, and more informed decisions, improving the productivity and operational efficiency of sites.

* Please note that fuel consumption was estimated based on specification sheets available from the manufacturer's. Diesel costs were estimated at £1.60/L for stage 3 generators and £1.99 for stage 5 generators (due to additional ad blue costs). CO2e emissions were estimated using the DEFRA 2023 value of 2.51 kg of CO2e per litre of diesel consumed and did not include WTT factors. These CO2e values are purely indicative and do not represent actual values due to varied use cases and specific emissions associated with the differing emissions scrubbing capabilities of the different generators. CO2e associated with grid electricity consumption were not included due to wide variations depending on use case and this comparison focusing on scope 1 emissions.