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SiteGrid X500 High-Capacity Power Unit

The SiteGrid X500 is engineered for applications with high energy consumption and sudden load surges. With a substantial capacity of 564 kWh, it delivers a dependable, stable power supply across both base and peak load scenarios, making it ideal for dynamic and heavy-duty environments.

Designed to perform in harsh conditions, the SiteGrid X500 enhances energy efficiency by significantly reducing reliance on diesel generators—cutting runtime by up to 80%. This not only lowers fuel consumption and emissions but also extends the lifespan of supporting equipment.

Whether it's powering equipment with strict energy demands or providing emergency backup, the SiteGrid X500 offers a robust, cost-effective, and sustainable power solution.

Features & Benefits

- Quick deployment
- High strength structure, high IP protection container
- Internal locker for batteries. Anti-theft hinges and door lockers.
- The design includes a lifting eye, skid frame with forklift pockets, anti-theft features for transport efficiency
- Seamless renewables integration
- Peak shaving, Load sharing
- Smart energy optimisation with Think Energy Panorama



Zero
CO2 Emissions



Plug
& Play



Zero
Noise Pollution

For more info, visit [thinkhire.co.uk](https://www.thinkhire.co.uk)





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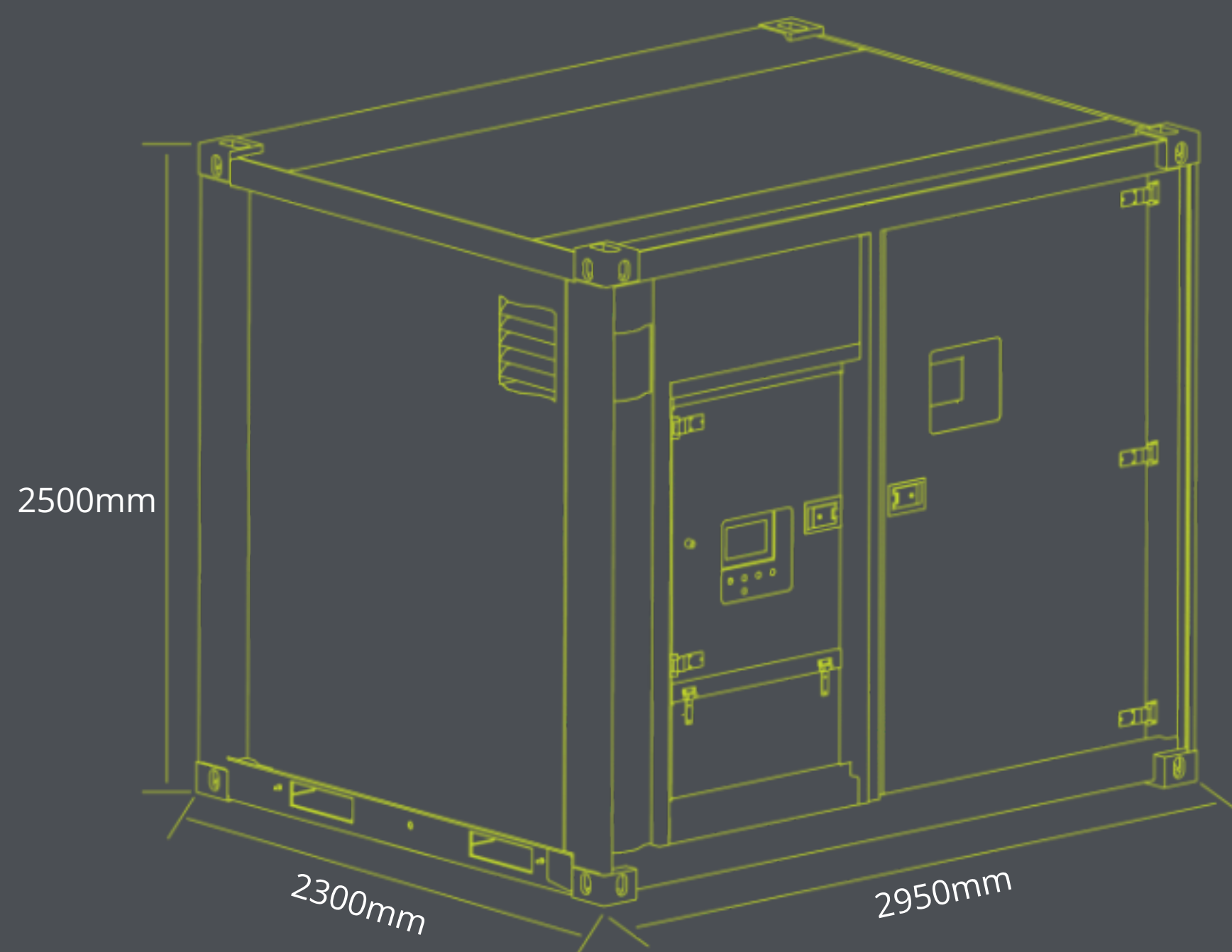
PERFORMANCE		X500
Nominal rated power	kVA	500
Overload power(60s)	kVA	625
Nominal peak power(10s)	kVA	625

ELECTRICAL		
Rated voltage	VAC	400
Output voltage range	VAC	360V-450V Configurable
Frequency	Hz	50(60)
Power factor range Nominal		1
AC current	A	721
Max AC current(10s)	A	902
Input Connections		125A 3 Phase Commando Plug 5 pin IP67, 800A Powersafe connectors, Busbar
Output Connections		800A Power Safe, Busbar (hardwired) 3X125A 3 Ph 5 pin IP67 Commando Sockets
Electrical		125A MCB D Type, 800A MCCB

ENERGY		
Cell chemistry		LiFePO4
Nominal capacity	kWh	564
Effective capacity	kWh	507.6
Recharging time	Hours	2h@282kW
Discharging time	Hours	1h@508kW
System round trip efficiency	%	up to 96.6%
DoD% (depth of discharge)	%	90
Lifetime (80% DoD)	Cycles	7000
Battery management system		Automotive grade BMS
Temperature control		Liquid cooling / PI heating film
Integrated Solar PV Charger Maximum	kW	100 (DC 190-1100V)

ENVIRONMENTAL		X500
Protection class		IP54
Corrosion protection		C3 (C5M)
Operating temperature	°C	-20 to +50
Humidity		0-95% (no condensation)
Maximum operating altitude	m	3000
Sound power level	dB(A) @1m	<50

MECHANICAL		
Dimensions (L x W x H)	mm	2950*2300*2500
Weight	kg	9300



SCOPE OF SUPPLY

Canopy

- High strength structure, high IP protection container

Security

- Internal locker for batteries.
- Anti-theft hinges and door lockers.
- Earth pin without grounding rod.

Transportability

- Transport Efficiency: The design includes a lifting eye, skid frame with forklift pockets, anti-theft features.

OPTIONALS

- Custom colors
- Custom sockets distribution (input and output)
- Extended galvanized baseframe
- Integrated PV inverter
- EV Charge point
- Trailer



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CONTROL

Control panel	Industrial grade rugged 10”HMI with configurable presets, data visualisation and logs
Protection	Overload, Overheat, Short Circuit, Earth Fault
Temperature control	Active forced air cooling
Remote generator start	Dry contact relay / MODBUS
Remote connectivity	Data-efficient M2M communications via cellular IoT and user notifications to Internet connected devices
Remote automation	Think Energy Panorama Web APP

Think Energy Panorama Energy Management System

Think Energy Panorama is an intelligent hybrid power management system that automatically controls power distribution between generator, battery storage, PV, and mains systems, determining the most economical mix of power management of the whole system. It provides a simple and guided operation experience in choosing the appropriate working mode for any scenario, ensuring you a safe, efficient, and reliable energy supply.



Multiple Working Mode

Provides multiple operating modes selection for different working scenarios. The full functions EMS supports Island mode, Hybrid mode, Microgrid mode etc.



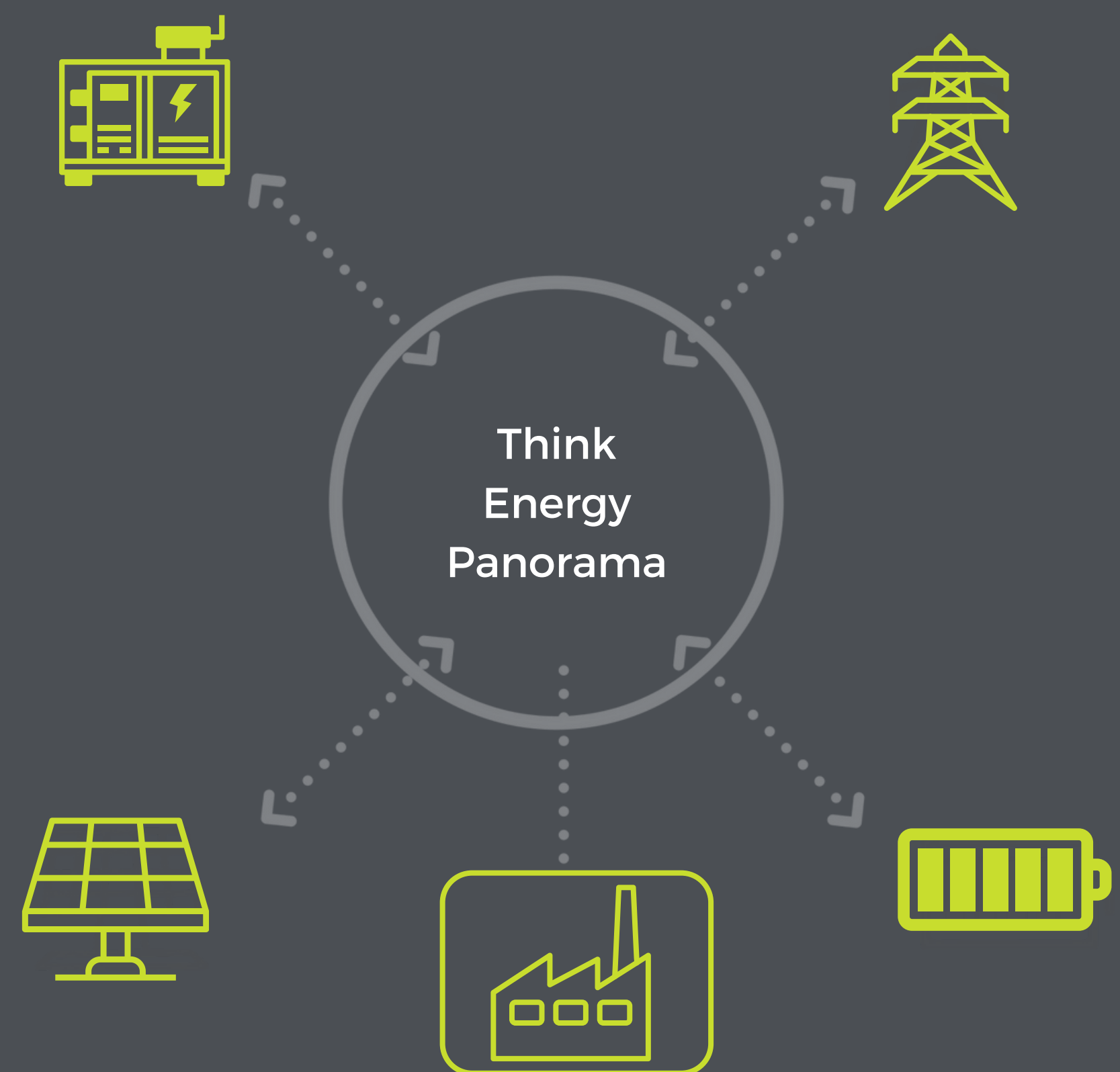
Integration Capability

Think Energy Panorama can automatically integrate various energy sources of generator, battery storage, PV, mains and provide seamless power switch.



Scalability

The power and capacity can be expanded by parallelling with multiple EnergyPack BESS and generators.



Think Energy group has the right to modify any feature without prior notice. The images are indicative and may not coincide in their entirety with the product. Images non contractual.

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