

HybridPowerSafe™ Specification Sheet

The Stuart Power Hybrid PowerSafe is a universal Battery Energy Storage system (BES) ideally suited to a range of applications, delivering reliable power in the most cost effective and environmentally sensitive way.



- Reduce Fuel Consumption, noise & pollution
- Sound attenuated enclosure
- Control panels with remote monitoring
- Generator and Li-Ion battery power
- Safe & secure in a custom built enclosure
- Large bunded integral fuel tank with remote fuel monitoring
- Forklift pockets



HybridPowerSafe™

Generator	Hybrid	Length (mm)	Width (mm)	Height (mm)	Weight Inc fuel (kg)
65kVA	30kVA/50kWh	3955	2438	2736	7248

65kVA P65-6

Size kVA	Fuel Capacity (Lt)	50% Load (LPH)	75% (LPH)	100% Load (LPH)	Sound Pressure Levels (dBA) 7M 75% Load
65kVA	1360	8.1	12.1	16.6	TBC

Socket Specification

Application	Sockets				
Generator	Direct Passthrough 1 x 63amp 3ph				
Hybrid	3 x 16amp 1ph	6 x 32amp 1ph	1 x 32amp 3ph	1 x 63amp 3ph	1 x 125amp 3ph



Multiple configurations can be achieved using external mains distribution board

Battery Energy Storage (BES) System Specification Sheet

Instruments, controls & connections

Inverter protection Short Circuit	✓
Inverter protection Overload	✓
Inverter protection Over Temperature	✓
Inverter protection Low Battery	✓
System status control panel	✓
Battery condition	✓
Battery main isolator	✓
GSM Remote Monitoring device	✓
Automation generator auto-start signal	✓
Input 16A 400/230V IEC 60309 3ph	1
Input 63A 400/230V IEC 60309 3ph	1
Input connection	IEC 60309 or hardwire stud

Output Specification

Output Power (Continuous)	kVA	30
Output Power Peak (5s)	kW	60
Voltage	V	400/230
Frequency	Hz	50
Phases		3

Battery Specification

Battery Type		Li-Ion NMC
Battery rated voltage	V	55.5
Battery design life (to 80% DoD)	cycles	3000
Battery nominal capacity (sizes)	kWh	50
Usable energy AC side (80% DoD)	kWh	40

System Benefits



Reduce CO₂ Emissions



Silent Hours Running

During battery operation



Reduced Fuel Consumption

"How long will the unit last on a single charge?"

The most common question asked and the answer depends entirely on how fast the stored energy is used up. Power usage is not always steady so it's difficult to be specific but, as a guide, the information below shows the typical savings based on average power use over a one month period.

HS2 Project Saving Period: 1st - 27th August | Fuel Costs Saved: £3408.00 CO2 Savings: 5734.71kg

HybridPowerSafe



reducenoisefuelpollution

Reduction in run hours**



Number of days	27
Fuel consumption per hour	5l
Cost of fuel per litre	£1.75
Normal run hours for this period	648:00
Actual run hours for this period	213:33
Reduction in run hours	434:26

Reduction in fuel consumed**



Conventional Generator Run Time	648:00
Cost (£)	5670.00
Hybrid Generator Run Time	213:33
Cost (£)	1866.00
Fuel Saved (£)	3804.00

POWERING INDUSTRY SOLUTIONS NATIONWIDE

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Park Industrial Estate
Gaskell Street, St Helens
WA9 1PX

North East Depot
Middleplatt Road
Immingham
DN40 1AH

West Midlands Depot
Diglis Trading Estate
Navigation, Road, Worcester
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East Anglia Depot
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