



# 90kVA Small Battery Storage

Our 90 kVA batteries integrate with diesel and other thermal generators as well as with renewable energy sources to build up the most efficient and reliable power supply system.

They reduce generator run time, storing the generated energy, which decreases the fuel consumption and noise on site, helping you save on both emissions and on costs. They support you in meeting local emissions regulations which adds to your social responsibility image and decarbonization efforts. With variable loads on site, this battery helps improve reliability and energy efficiency, without any required CAPEX. Driven by data, these batteries provide full transparency for complete energy optimisation.

## KEY DATA

**STANDBY RATING** 90 kVA  
**30 MIN (KVA) @ 25°C**

**PHASE** 3

**VOLTAGE** 400 V

## PHYSICAL DATA

**LENGTH** 2.25 m

**WIDTH** 1.3 m

**HEIGHT** 2.07 m

**WEIGHT (GROSS)** 2800 kg

**WEIGHT (NET)** 2800 kg

## FEATURES

- Intelligent onboard energy control module that communicates with the generator
- Flexible maneuverability options with forklift pockets and lifting ring
- Designed and assembled to Aggreko's standards
- Wide ambient temperature range
- Charge time within a nominal temperature range is approximately three hours

## BENEFITS

- Allows for savings on fuel, reducing both emissions and costs
- Environmentally friendly, helps in meeting emissions regulations
- Enhances the image of social responsibility
- Increases reliability as it manages variable loads and eliminates light load periods.
- Fast installation and commissioning, plug and play with the entire Aggreko eco-system
- Delivers zero noise, ideal for projects where sound needs to be kept to a minimum
- Remote monitoring which allows optimisation through the technical support desk and control via Aggreko ARM app.

## ADDITIONAL DATA

### POWER

#### OUTPUT (STAND ALONE)

STANDBY RATING 30 MIN @25°C	90 kVA
PRIME RATING @25°C / @45°C	72 kW / 60 kW

#### OUTPUT (WHEN EXTERNAL SOURCE AVAILABLE)

MAXIMUM LOAD PER PHASE BEFORE GENERATOR START COMMAND	20.4 kW (Immediate start) 18 kW (5 min)
MAXIMUM LOAD (ALL PHASES) BEFORE GENERATOR START COMMAND	53.9 kW (2 hours)

#### COMBINED SYSTEM OUTPUT

CONTINUOUS PASS THROUGH PER PHASE (EXTERNAL SOURCE ONLY)	200 A
MAX COMBINED OUTPUT PER PHASE (EXTERNAL SOURCE + HES*)	250 A
RUN-TIME @ MAX COMBINED OUTPUT (EXTERNAL SOURCE + HES)	3 hours

#### INPUT/OUTPUT

AC INPUT VOLTAGE RANGE	400 V (320-460 V)
AC OUTPUT VOLTAGE - 50 HZ	400 V

INPUT CONNECTIONS	125A 400V & 16A 230V CEE-Forms, 400V BusBar
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OUTPUT CONNECTIONS	125A 400V & 16A 230V CEE-Forms, 400V BusBar
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PROTECTION	Overload, Overheat, Short Circuit, Earth Fault
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\*HES - Hybrid Energy System

### STORAGE

TECHNOLOGY	Lithium iron Phosphate (LFP)
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BATTERY MANAGEMENT SYSTEM	Industrial grade intelligent passive BMS optimised for HES Applications
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ENERGY CAPACITY (NOMINAL)	127.9 kWh
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ENERGY CAPACITY (USABLE)	115.1 kWh
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EXPECTED CYCLE LIFE (TO 80% ORIGINAL CAPACITY)	6000
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MAXIMUM SYSTEM EFFICIENCY @25°C	90%
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MAINTENANCE CHARGE CYCLE	< 4 weeks
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CHARGE TIME (MINIMUM)	3 hours
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### CONTROL

CONTROL PANEL	7" touch screen control module
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TEMPERATURE CONTROL	Analogue voltage controlled forced air cooling
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REMOTE GENERATOR START	Dry contact relay
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REMOTE COMMUNICATION	3G/4G Dual SIM modem/router
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### ENVIRONMENTAL

WATER/INGRESS PROTECTION RATING	IP55
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OPERATING TEMPERATURE RANGE	-12° to +50° C
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SOUND LEVEL (DBA) @ 0%/100% FAN SPEED	Acoustic pressure @ 3m: 0/66
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\*Equipment supplied may vary slightly. Output dependent on battery bank SoC. Charge time dependent on available power of external source and operating temperature. When the internal battery temperature reaches below 2°C or above 45°C, the charge current is reduced to 0.06C to protect the batteries.