

BESS 45/60 PRODUCT SHEET



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Emission-Free, Silent power Solution.

The Battery Energy Storage system offers a revolutionary **energy storage system** designed to be paired with diesel generating sets. This solution optimizes energy production and consumption, significantly **reducing noise, pollutant emissions, and engine operating times.**

Featuring an advanced integrated energy control module, the GeniWatt BESS constantly monitors the load, and switches between the battery power source and the genset.

Model	Volts	kVA	kWh	Phases
BESS45/60	400	45	60	3

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POWER MODE (STAND ALONE)

Power rating*	45 kVA
Full Power Current	64.95 A per phase
Output Voltage	400 / 230 VAC @ 50 Hz
Energy Storage Capacity	60 kWh

HYBRID SYSTEM MODE

Recommended Genset	FG Wilson P88-3
Max Hybrid Output	103 kVA (BESS + Genset)

BATTERIES

Type	LiFePO ₄ (Lithium Ion Phosphate)
Voltage	48 V
Expected Cycle Life (to 80% Original Capacity)	6000 cycles
Full Charge Time	2 h 45 min

ENVIRONMENT

Operating Temperature Range	-12 to 50°C
Sound level @ 3m	Max 66 dB(A) (100% Fan Speed)
Water/Ingress Protection Rating	IP55

FEATURES

Dimensions (L x W x h)	1450 x 1238 x 1788.2 mm
Weight	1440 kg
Lift Points	Forklift pockets, lift & drag skid, Lifting Ring
Input Connections	125 A 400 V, 16 A 230 V CEE, and 400 V BusBar
Output Connections (user-adjustable)	125 A 400 V, 16 A 230 V CEE, and 400 V BusBar
Protection	Overload, Overheat, Short Circuit, Earth Fault