Powerhire
A DIVISION OF TGC INTERNATIONAL LTD

BATTERY ENERGY STORAGE SYSTEM 45/80 LFP

FEATURES:

- Deep-cycle Li-Ion LFP battery module
- Advanced control with touch screen display
- GSM Remote monitoring
- Auto Full system bypass
- Auto remote call to start generator
- IDE ERICA Energy Management and Control System incorporated into distribution panel

GENERAL DESCRIPTION:

Powerhire's 45/80 LFP is a universal Battery Energy Storage system (BESS) ideally suited to a range of applications, delivering reliable power in the most cost effective and environmentally sensitive way. Energy stored within the unit is converted electronically into AC power. Power can be derived from connection to an external grid supply or from a diesel generator. Energy is automatically managed from any or all energy sources to ensure the most efficient, lowest maintenance and best environmental impact is achieved. Remote communication ensures real time monitoring and maintenance can be effected from any location in the world.

OUTPUT SPECIFICATIONS

Output power (Continuous)	kVA	45
Output power peak (5s)	kW	75
Voltage	V	400/230
Frequency	Hz	50
Phases		3

BATTERY SPECIFICATIONS

Battery (Type)		Li-Ion LFP V
Battery rated Voltage	V	48
Battery design life (to 90% DoD)	cycles	6000
Battery Nominal capacity (sizes)	kWh	76.8
Usable energy AC side (@90% DoD)	kWh	66

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INPUT SPECIFICATIONS

System pass-through capacity	A	100
Input 125A 400V IEC 60309		2

INSTALLATION DATA

Length	(L) mm	2240
Width	(W) mm	1160
Height	(H) mm	2018
Weight	kg	2000
Discharging temperature range	°C	-10...45
Charging temperature range	°C	0..45

INSTRUMENTS, CONTROLS & CONNECTIONS

Inverter protection Short Circuit	✓
Inverter protection Overload	✓
Inverter protection Over Temperature	✓
Inverter protection Low Battery	✓
System status control panel	✓
Battery condition	✓
GSM Remote monitoring	✓
Automatic generator auto-start signal	✓
Incorporating IDE ERICA power monitoring and control	✓
Output Protection RCBO / RCD	✓
Output 32A 230V IEC 60309 1 ph	6
Output 63A 400/230v IEC 60309 3ph	1
Output 125A 400/230v IEC 60309 3ph	1

TYPICAL SETUP:

Battery storage deployed with generator to supply site welfare unit and security lighting.