

# XES-60

The XES is a rental ready energy storage system that integrates with diesel generators to optimize efficiency of power generation and consumption while reducing noise, emissions and fuel waste by minimizing engine run-time and maximizing use of stored energy.

XES constantly monitors load and state of charge, automatically starting the generator when the batteries need to recharge.

Key benefits:

- Protects generator from low load running hours
- Minimizes generator emissions
- Conserves fuel
- Extended periods of silent power
- Extended generator service intervals

Portable Solar Trailers Available For Rent



MODEL	XES-60.420/208
Volts	208
kVA	60
kWh	128
Phase	3

		MODEL #	HES-30.60/208	
POWER	Output (stand alone)	Standby Rating 30 min (kVA) @ 77°F <sup>1</sup>	60	
		Prime Rating (KW) @ 77°F / 104°F <sup>1</sup>	48	39
	Output (when external source available)	Maximum Load per Phase Before Generator Start Command (kW) <sup>1,2</sup>	13.6(Immediate Start) 12 (5mins)	
		Maximum Load (all phases) Before Generator Start Command (kW) <sup>5</sup>	35.9 (3 hours)	
	Combined System Output	Continuous Pass Through per phase (External Source Only) (A)	200	
		Max Combined Output per phase (External Source + XES) (A) <sup>1</sup>	250	
		Run-time@ Max Combined Output (External Source+ XES) (h) <sup>1</sup>	5h30'	
	Input/Output	AC Input Voltage Range (V)	208 (173 - 242)	
		AC Output Voltage - 60 Hz (V)	208	
		Input Connections	CAM Type Connectors, Power Terminals & NEMA (5-15P) 15A 120V Inlet	
Output Connections		CAM Type Connectors, Power Terminals & NEMA (5-20R) 20A 120V Outlet		
	Protection	Overload, Overheat, Short Circuit		

STORAGE	Type	LFP (Lithium Iron Phosphate)
	Nominal Capacity @ 77°F (kWh)	127.9
	Charge Time (hours) @ 77°F <sup>3</sup>	3h45'
	Maximum Efficiency @ 77°F	90%
	Battery Management System	Industrial Grade Intelligent Passive BMS Optimised for XES Applications
	Expected Cycle Life (To 80% Original Capacity)	6,000
	Maintenance Charge Cycle	≤ 4 weeks

CONTROL	Control Panel	ECM 7" Touch Screen Control Module
	Temperature Control	Analogue Voltage Controlled Forced Air Cooling
	Remote Generator Start	Dry Contact Relay
	Remote Communication	3G/4G Dual SIM Modem/Router

ENVIRONMENTAL	Water/Ingress Protection Rating	NEMA 3
	Operating Temperature Range (°F) <sup>4</sup>	10 - 122 (Optional Heater available)
	Sound Level (dBA) @ 0% / 100% Fan Speed	Acoustic Pressure @ 3m: 0 / 66

MECHANICAL	Dimensions L x W x H (mm / inches)	2250 X 1300 X 2065 / 88.5 X 51 X 81
	Weight (kg/lbs)	2700 / 5950
	Lift Points	Dual Ratable Lifting Ring (2 Point Lift), Forklift Pockets, Lift & Drag Skid

1 Depending on battery bank 50c 2 Multiple start conditions only available with optional Control Module. <sup>1</sup>Charge time dependent on available power of external source and operating temperature. • When the internal battery temperature reaches below 32°F or above 113°F, the charge current is reduced to 0.0c to protect the batteries. • Without exceeding Max. Load per Phase



MAKING RENEWABLES RELIABLE

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