

# POWRBANK

The Blue Diamond **POWRBANK** 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.

With the onboard energy control module the POWRBANK constantly monitors load levels and automatically switches between generator power and stored energy as necessary, only using the generator when necessary for higher loads.

#### Key benefits:

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

Find out more at [bluedm.com.au](http://bluedm.com.au)



MODEL	HES-45.60/400 (MEA)
Volts	380
kVA	45
KWH	56.8
Phase	3

MODEL #		HES-45.60/400		
POWER	Output (stand alone)	Standby Rating 30 min (kVA) @ 25°C <sup>1</sup>		
		Prime Rating (kW) @ 25°C / @ 45°C <sup>1</sup>		
	Output (when external source available)	Maximum Load per Phase Before Generator Start Command (kW) <sup>1,2</sup>	10.2 (Immediate Start) 9 (5mins)	
		Maximum Load (all phases) Before Generator Start Command (kW) <sup>5</sup>	26.9 (2 hours)	
	Combined System Output	Continuous Pass Through per phase (External Source Only) (A)	100	
		Max Combined Output per phase (External Source + HES) (A) <sup>1</sup>	125	
		Max Power Assist (kVA) <sup>1</sup>	25	
	Input/Output	AC Input Voltage Range (V)	400 (320 - 460)	
		AC Output Voltage - 50 Hz (V)	380	
		Input Connections	125A 400V & 16A 230V CEE-Forms, 400V BusBar	
Output Connections		125A 400V & 16A 230V CEE-Form & 400V BusBar		
Protection		Overload, Overheat, Short Circuit, Earth Fault		
STORAGE	Type	LFP (Lithium Iron Phosphate)		
	Nominal Capacity @ 25°C (kWh)	56.8		
	Charge Time (hours) @ 25°C <sup>3</sup>	3		
	Maximum System Efficiency @ 25°C	90%		
	Battery Management System	Industrial Grade Intelligent Passive BMS Optimised for HES Applications		
	Expected Cycle Life (To 80% Original Capacity)	6,000		
	Maintenance Charge Cycle	≤ 3 week		
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, Portal		
ENVIRONMENTAL	Water/Ingress Protection Rating	IP55		
	Operating Temperature Range (°C) <sup>4</sup>	-12 to +50		
	Sound Level (dBA) @ 0% / 100% Fan Speed	Acoustic Pressure @ 3m: 0 /66		
MECHANICAL	Dimensions L x W x H (mm)	1140 x 1450 x 1730		
	Weight (kg)	1440		
	Lift Points	Forklift Pockets, Lift & Drag Skid, Lifting Ring		

<sup>1</sup> Depending on battery bank SoC <sup>2</sup> Multiple start conditions only available with optional Control Module. <sup>3</sup> Charge time dependent on available power of external source and operating temperature. <sup>4</sup> 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. <sup>5</sup> Without exceeding Max. Load per Phase