

# 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-90.120/400 (MEA)
Volts	380
kVA	90
kWH	128
Phase	3

		MODEL #	HES-90.120/400	
POWER	Output (stand alone)	Standby Rating 30 min (kVA) @ 25°C <sup>1</sup>	90	
		Prime Rating (kW) @ 25°C / @ 40°C <sup>1</sup>	72	60
	Output (when external source available)	Maximum Load per Phase Before Generator Start Command (kW) <sup>1,2</sup>	20.4 (Immediate Start) 18 (5mins)	
		Maximum Load (all phases) Before Generator Start Command (kW) <sup>5</sup>	53.9 (2 hours)	
	Combined System Output	Continuous Pass Through per phase (External Source Only) (A)	200	
		Max Combined Output per phase (External Source + HES) (A) <sup>1</sup>	250	
		Max Power Assist (kVA) <sup>1</sup>	55	
	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)	127.9
	Charge Time (hours) @ 25°C <sup>3</sup>	3h
	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	≤ 4 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)	2250 x 1300 x 2065
	Weight (kg)	2800
	Lift Points	Dual Rotable Lifting Ring (2 Point Lift), Forklift Pockets, Lift & Drag Skid

<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 0.05C to protect the batteries. <sup>5</sup> Without exceeding Max. Load per Phase