



BPH 090 | BCH 090

Bridge Mounted Systems

Combination solid-state ground power unit with powered cable coil



BPV 090 + BCV 090
Remote Control Panel

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Bridge Mounted Systems



BGSE Group is your partner for aviation ground support equipment, and a system integrator focused on efficiency, performance and reliability.

Our experts have comprehensive industry knowledge and an innovative mindset driven by your needs.



Dual BPV 090 + BCV 090 Control Panel - unit mounted

Solid-State GPU, BPH 090

Input	
Frequency	50 / 60 Hz ± 5 %
Voltage	3 × 400 V ± 10 %, 3 × 480 V ± 10 %, other voltage levels on request
Power Factor	0.99 through PFC (power factor correction)
Current distortion	< 4 %
Inrush current	None (< I nominal)

Output		Protection	
Power	90 kVA	Protection class	IP55 Standard
Voltage	3 × 200 / 115 V	Input/Output	Short circuit protection
Frequency	400 Hz		Over and under voltage protection
Efficiency	> 94 %		Overload protection
Load power factor	0.6 lagging to 0.95 leading	General	No break power transfer
Static voltage regulation	< 0.5%		Over-temperature protection
Crest factor	1.414 ± 3 %		
Phase angle symmetry	120° ± 1° for balanced load		
	120° ± 2° for unbalanced load		
Total harmonic content	< 2 %		

Overload 125 % for 10 min, 150 % for 1 min, 200 % for 30 sec., 300 % for 10 sec., 400 % for 1 sec.

Cable Coil, BCH 090

Cable Coil		Variable Frequency Drive (VFD)	
Usable cable length	Up to 92 ft (28 m)	Voltage	3 × 400 V ± 10 %, 3 × 480 V ± 10 %
Coiling speed	Variable, Standard 1.3 ft/s (0.4 m/s)		other voltage levels on request
400 Hz cable entries	Top / Back / Bottom	Frequency	50 / 60 Hz
Protection	IP55 (control panel)	Engine power	350 W

Cables

Spiral cable	Unique spiral cable to transfer the power from the fixed to the moving part	
400 Hz cable	Flexible jet cable with up to 24 control wires, symmetrical construction	
400 Hz connector	Push buttons	Start, Stop, Cable In, Cable Out
	Indications	28 V, Pilot, Power

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Ambient conditions

Operating temperature	-22°F to 125°F (-30°C to 52°C) - other temperatures on request
Relative humidity	Up to 95 %
Noise level	< 65 dB (A) at 3.3 ft (1 m)

Products

Mean-time to repair	< 10 min
Materials	Stainless steel and PMMA for highest corrosion resistance - fully recyclable
Mounting	Combined fitted to the PBB with mounting brackets

Versions	Ground-mounted	Bridge-mounted
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Options		
	Remote control and monitoring	90 % interlock
	TCP/IP modbus connection	BMS integration
	Military interlock	Neutral voltage supervision
	Engine with crank handle	Broken neutral supervision
	Leakage current supervision	User management integrated in the HMI
	Additional safety precautions	Protective isolation (DFS 400 - 4 kV)

Standards	ISO 6858:2017 / EN2282 / BS 2G 219 / EN1915-1&2 / DFS 400 / MIL-STD-704F / SAE ARP 5015 / EN61000-6-4 / EN12312-20	
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Weight	BPH 090 + BCH 090	1,653 lb (750 kg)
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