GERCHAMP

GHV3S 100kW

3S MODULE

BMS+PCS+EMS+HV Box

All-In-One

INTRODUCTION

GHV3S integrates BMS* (battery management system), PCS (power conversion system), EMS (energy management system) and HV (high voltage box) in one module. The self-developed design can realize an intelligent synergy of the product, improve safety performance, save hardware cost, increase conversion efficiency, shorten the development cycle, and reduce the difficulty of operation and maintenance.

*BMU module not included

ADVANTAGES

LOW COST

- All-in-one design reduces the size of the product
- Shorten development cycles and reduces comprehensive costs

HIGH EFFICIENCY & STABILITY

- Strategic integration of 3S ensures stability and fast response
- Unified system control improves overall stability

FLEXIBLE CONFIGURATION

- Satisfy the needs of multiple application scenarios
- Customized and flexibly matching with other ESS products

CONVENIENT O&M

- Intelligent collaboration improves O&M efficiency
- Self-developed products enhances the O&M convenience

EMS PLATFORM

The EMS platform is aimed to realize the centralized monitoring, operation and maintenance management. As an intelligent cloud platform, it provides data access of multiple energy storage sites based on unified collection and terminal control. The EMS is equipped with comprehensive functions such as real-time monitoring, data display, strategy control, operation analysis and revenue report analysis, contributing to a safe and long-term operation of C&I ESS with cost-reducing and efficient solution.

SPECIFICATIONS

Items	Tech Specifications	
Power Supply	GHV3S Supply voltage: 220Vac/ Power consumption: <200W (without load)	
Basic Parameters	Maximum conversion efficiency	98%
	Dimensions (LWH)/Weight	794*800*235mm/82.55kg
	Cooling method	Air-cooling
Environment	Operating temperature:-20~+65℃/ Storage temperature:-40~+125℃/ Relative humidity: 0%~95%RH (no condensation)	
	Altitude above sea level: 3000m/ Voice: <75dB/ Protection level: IP20	
AC Specifications	Rated AC power: 100kW	
	Wiring: Three-phase three wiring (grid-tied mode)/Three-phase three wiring/Three-phase four wiring (Off-grid mode)	
	AC overload capacity: 10% overload	
Grid-tied Mode	Allowable voltage: 380/400 (-15%~15%) Vac	
	Allowable frequency: 50 (-2.5~2.5) Hz	
	Total harmonic current distortion: ≤2%	
	Voltage ripple factor: ≤1%	
	Power factor: 0.99(-1~1)	
DC Specifications	Rated DC power: 100kW	
	DC voltage range: 650~900V	
	DC access channel: 1	
	Maximum DC current: 70A	
	Stabilized voltage accuracy: ≤±1%/ Stabilized current accuracy: ≤±1%	
Communications	2-channel LAN/3-channel CAN (2-channel CAN2.0/1-channel CAN FD)/4-channel RS485/1-channel RS232/2-channel optical fiber	
Output Ports	4-channel DO*L	DO*L voltage range (9~32Vdc)/DO*L current: 2.2A at maximum and 1.1A continuously Rated power: 26.4W/Instantaneous power:192W
	4-channel dry contact outputs	Specification: 24Vdc/1A Electrical isolation: 3000Vdc
	7-channel DI*L and 2-channel passive DI	Low voltage range: <0.5Vdc
Storage	Storage: 8G/Internal memory: 2G/1-channel USB port (USB2.0)	

GERCHAMP
https://www.gerchamp.com

North America
+140 1257 9992
info@gerchamp.com
Suite802, 440 Cobia Drive, Katy, Texas77494

India
+91 9819 9454 57
ved.kartik@gerchamp.com
Office no 1205, 145 Business bay, 145, Vallabh Baug Ln, Railway Police Colony, Ghatkopar East, Mumbai, Maharashtra 400075, India

Other Area
+86 153 9808 0718
sales@gerchamp.com
2nd & 3rd Floor of No.3 Building, No.1418-50 Moganshan Road, Hangzhou, China