

Mars HV5-01 Battery



PRODUCT MODEL

- Mars HV5-01 (Battery)



Safer

Cobalt Free Lithium Iron Phosphate (LFP) Battery, safety and long lifespan, high efficiency and high-power density. Intelligent BMS, providing complete protection.



Reliable

Support high discharge power, module level Auto-balancing, under-voltage Automatic Restart.



Flexible

Modular design, easy to expand, Max. capacity of 26.5kWh. Suited to residential and commercial applications for increasing the self-consumption ratio.



Convenient

Battery module auto networking, Automatic IP addressing, easy maintenance, remotely monitoring and upgrade, support USB drive upgrade the firmware.



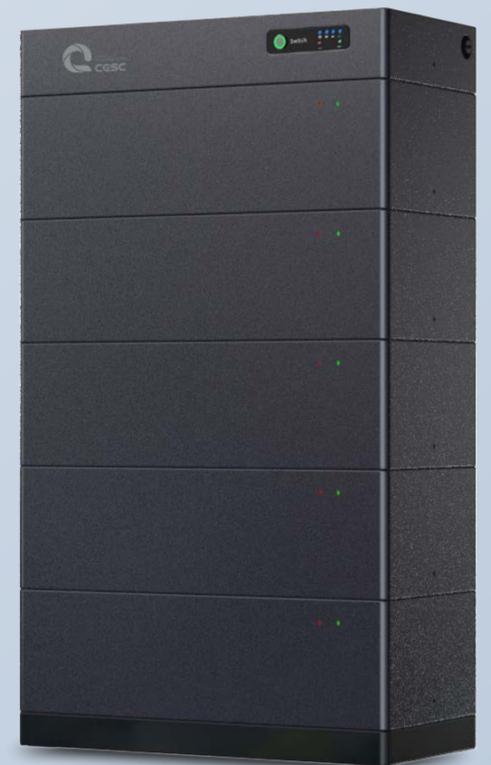
Eco-Friendly

Use environmental protection materials, the whole module non-toxic, pollution-free.



Floor-Mounted

Free stand design, floor-mounted, saving installation space.



Mars HV5-01

MODEL	Mars HV5-01-1	Mars HV5-01-2	Mars HV5-01-3	Mars HV5-01-4	Mars HV5-01-5
Total Energy [kWh]	5.3	10.6	15.9	21.2	26.5
Battery Module	102.4V 5.3kWh				
Number of Modules	1	2	3	4	5
Cell Type	LFP (LiFe P04)				
Nominal Voltage [V]	102.4	204.8	307.2	409.6	512
Operating Voltage [V]	80 - 116.8	160 - 233.6	240 - 350.4	320 - 467.2	400 - 584
Max. Charge / Discharge Current [A]	50	50	50	50	50
Continue Discharge Output [kW]	5	10	15	20	25
Dimensions [W*D*H]	740 * 366 * 400mm	740 * 366 *620mm	740 * 366 *840mm	740 * 366*1060mm	740 * 366*1280mm
Approximate Weight [KG]	69	119	169	219	269

General Specifications

Recommend Depth of Discharge	90%
LED Indicator	4 LED (SOC: 25%-SOC, 100% blue), 2 LED (working green, alarming red)
IP Rating of Enclosure	IP40 (Indoor) & IP65 (Outdoor)
Operating Temperature	Charge: 0°C - 50°C/ Discharge: - 20°C - 50°C
Storage Temperature	-20°C - 35°C
Humidity	≤ 95%
Altitude	≤ 2000m
Cycle Life	10 + years, 6000 cycles (90% DOD, 25°C)
Installation	Stack, Floor-mounted
Communication Port	CAN2.0
Certification	UN38.3, IEC62619

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

Introduction

CESC Residential Li-ion Battery System Mars HV5-01 is a high voltage lithium battery with an integrated battery system that stores your energy for backup protection when the grid goes down. The compact, minimalist construction features versatile mounting options for indoor or outdoor spaces.

This series is especially suitable for application scene of high power, limited installation space, restricted load-bearing and long cycle life.

This series has built-in BMS battery management system, which can manage and monitor cells information including voltage, current and temperature. What's more, BMS can balance cells charging and discharging to extend cycle life.

Multiple battery modules can connect in series to expand capacity and power for larger capacity an longer power supporting duration requirements.

Modules

High Voltage Battery Control Unit (BCU)

Operating Voltage	70 - 600Vdc
Max Charge / Discharge Current	50A
Ingress Protection	IP40 (Indoor) & IP65 (Outdoor)
Operating Temperature	Charge:0°C - 50°C/Discharge:-20°C - 50°C
Storage Temperature	-20°C - 35°C
Dimension (W*D*H)	740*366*120mm
Approximate Weight	12KG



Battery Module

Battery Type	LiFePO4(LFP)
Nominal Voltage	102.4Vdc
Nominal Capacity	52Ah
Nominal Energy	5.3kWh
Max Charge / Discharge Current	50A
Operating Temperature	Charge:0°C - 50°C/Discharge:-20°C - 50°C
Storage Temperature	-20°C - 35 C
Ingress Protection	IP40 (Indoor) & IP65 (Outdoor)
Dimension (W*D*H)	740*366*220mm
Approximate Weight	50KG



Base

Dimension (W*D*H)	740*366*60mm
Approximate Weight	7KG

