Venus HV5-01 Battery

Consistent
Energy Storage Concept
CESC

PRODUCT MODEL

- Venus HV5-01(Battery)

3

102.4V 5.3kWh
Stackable up to 3 modules

1C

1C charging/discharging

IP65

IP65(Outdoor)

4+2 LED

4 LED (SOC: 25%-SOC 100% blue), 2 LED (working green, alarming red)

- Safety and long lifespan, high efficiency and high-powerdensity.
- Support high discharge power, module level Auto-balancing,under-voltage Automatic Restart.
- Intelligent BMS, providing complete protection.
- Battery module auto networking, Automatic addressing, easmaintenance Free stand design and saving installation space.
- Remotely monitoring and upgrade, support IOT function for smarter and more efficient battery pack operation and maintenance.
- Whole module non-toxic,pollution-free.

Venus HV5-01

MODEL	Venus HV5-01-1	Venus HV5-01-2	Venus HV5-01-3
Battery Module		102.4V 5.3kWh	
Cell Type		LFP ($LiFePO_4$)	
Number of Modules	1	2	3
Total Energy [kWh]	5.3	10.6	15.9
Usable battery capacity [kWh]	4.77	9.54	14.31
Nominal Voltage [V]	102.4	204.8	307.2
Operating Voltage [V]	80-116.8	160 - 233.6	240 - 350.4
Max. Charge / Discharge Current [A]		52	
Rated DC Power [kW]	5.3	10.65	15.97
Max. Charging Power [kW]	5.3	10.65	15.97
Dimensions [W*D*Hmm]	740*220*565	740*220*900	740 * 220*1235
Approximate Weight [KG]	66	116	166

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	IP65
Operating Temperature	Charge: 0℃ - 50℃ / Discharge: 0℃ - 50℃
Storage Temperature	0℃ - 35℃
Humidity	5%~95%
Altitude	≤ 2000m
Cycle Life	10 + years, 6000 cycles (90% DOD, 25℃)
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℃. 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 Venus 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. 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 and longer power supporting duration requirements.

Modules

High Voltage Battery Control Unit (BCU)

Operating Voltage	70 - 600Vdc
Max Charge / Discharge Current	52A
Ingress Protection	IP65
Operating Temperature	Charge:0℃ - 50℃/Discharge:0℃ - 50℃
Storage Temperature	0℃ - 35℃
Dimension (W*D*H)	740*220*170mm
Approximate Weight	11KG

Battery Module

Battery Type	$LiFePO_4$(LFP)
Nominal Voltage	102.4Vdc
Nominal Capacity	52Ah
Nominal Energy	5.3kWh
Max Charge / Discharge Current	52A
Operating Temperature	Charge:0℃ - 50℃/Discharge:0℃ - 50℃
Storage Temperature	0℃ - 35℃
Ingress Protection	IP65
Dimension (W*D*H)	740*220*335mm
Approximate Weight	50KG

Base

Dimension (W*D*H)	740*220*60mm
Approximate Weight	5KG

Made in China