High Voltage Battery Energy Storage

ZHEJIANG BE NYI NEW ENERGY CO., LTD.
CHANGJIANG RD, WENZHOU DAQIAO INDUSTRY PARK, BEIBAIXIANG TOWN, YUEQING, WENZHOU CITY, ZHEJIANG PROVINCE, CHINA
TEL: +86-577-5717 7008 FAX: +86-577-5717 7007
info@ be ny. com
www.beny.com

VERSION : 20240814-01

System Components

System Components	
BYER-HV3993	High Voltage Battery Control Unit (BCU)
Operating Voltage	60-900Vdc
Ingress Protection	IP20
Dimension(W*D*H)	430*462*186mm
Approximate Weight	15KG

System Components	
BYER-HV3993	Battery Module
Battery Type	LiFePO4(LFP)
Nominal Voltage	76.8Vdc
Nominal Capacity	52Ah
Nominal Energy	3.993kWh
Max Charge /Discharge Current	26A
Operating Temperature	Charging： 0℃-55℃；ischarging： -30℃-60℃
Storage Temperature	0℃-35℃
Ingress Protection	IP20
Dimension(W*D*H)	430*460*147mm
Approximate Weight	35.1KG

System Components	
BYER-HV3993	Cabinet
Dimension(W*D*H)	553*605*2040mm
Approximate Weight	106KG

BYER-HV3993	
Parameters	BYER-HV3993
Nominal Capacity [kWh]	3.993
Battery Module	BYER-HV3993 76.8V 3.993kWh
Number of Modules	1
Cell Type	LFP(LiFe P04)
Usable Capacity[kWh]	3.79
Nominal Voltage [V]	76.8
Operating Voltage[V]	60~87.6
Max.Charge Current [A]	26
Max.Discharge Current [A]	26
Dimension[W*D*H]	430*460*147 mm
Approximate Weight [KG]	35.1KG

Other Parameter	
Recommend Depth of Discharge	95%
LED Indicator	4 LED (SOC: 25%-SOC: 100% green), 2 LED (working green, alarming red)
IP Rating of Enclosure	IP20
Working Temperature	Charging： 0℃-55℃；ischarging： -30℃-60℃
Working Humidity	≤95%(RH] No Condensation
Working Altitude	≤2000m
Storage Temperature	0℃~35℃
Cycle Life	>5000 0.2C80%D0D(25±2℃)
Installation	Rack Mount
Communication Port	LAN;RS485;CAN
Certification	UN38.3,IEC62619,CE

[1] DC Usable Energy,test conditions： 95% 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

BENY Residential Li-ion Battery System BYER-HV3993 is a high voltage lithium battery with an integrated battery system that stores your energy for backup protection when the grid goes down.

This series is particularly suitable for applications with high power 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.

The standard configuration of one High Voltage Battery Control Unit (BCU),one Battery Module and one Cabinet,which can be configured with as many Battery Module as required (up to 10 strings are supported).

System Components

System Components	
BYER-HV7833	High Voltage Battery Control Unit (BCU)
Operating Voltage	60-900Vdc
Ingress Protection	IP20
Dimension(W*D*H)	430*462*186mm
Approximate Weight	15KG

System Components	
BYER-HV7833	Battery Module
Battery Type	LiFePO4(LFP)
Nominal Voltage	76.8Vdc
Nominal Capacity	102Ah
Nominal Energy	7.833kWh
Max Charge /Discharge Current	51A
Operating Temperature	Charging： 0℃-55℃；ischarging： -30℃-60℃
Storage Temperature	0℃-35℃
Ingress Protection	IP20
Dimension(W*D*H)	430*760*147mm
Approximate Weight	61.8KG

System Components	
BYER-HV7833	Cabinet
Dimension(W*D*H)	553*923*2040mm
Approximate Weight	132.5KG

BYER-HV7833	
Parameters	BYER-HV7833
Nominal Capacity [kWh]	7.833
Battery Module	BYER-HV7833 76.8V 7.83kWh
Number of Modules	1
Cell Type	LFP(LiFe P04)
Usable Capacity[kWh]	7.5
Nominal Voltage [V]	76.8
Operating Voltage[V]	60~87.6
Max.Charge Current [A]	51
Max.Discharge Current [A]	51
Dimension[W*D*H]	430*760*147 mm
Approximate Weight [KG]	61.8KG

Other Parameter	
Recommend Depth of Discharge	95%
LED Indicator	4 LED (SOC: 25%-SOC: 100% green), 2 LED (working green, alarming red)
IP Rating of Enclosure	IP20
Working Temperature	Charging： 0℃-55℃；ischarging： -30℃-60℃
Working Humidity	≤95%(RH] No Condensation
Working Altitude	≤2000m
Storage Temperature	0℃~35℃
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