

Overview

CTS-HV series is Lithium iron phosphate battery system which designed for high voltage residential energy storage system application, suitable for 100V to 1500V storage system. This battery system consists of battery racks and CBMS, each battery rack integrates with intelligent BMU inside. And this system has big advantages on safety, cycle life, energy density, fast charging, temperature range and environmental protection. CTS is committed to providing safe and stable power supply for residential energy storage system.

Features

- The battery module consists of battery racks and CBMS.
- LFP single cell, long life, safety and wide temperature range
 - High energy density, small size, light weight, no pollution;
 - Use CBMS-BMU design, protect voltage, current, temperature
 - Integrated communication interface, CAN2.0 and RS485 type
 - Packed in 19 inches standard container, easily for installation and expa
 - can match varied inverters
 - 15 years design life, Stable performance, maintenance-free



Architechure diagram

CBMS parameter

Size (W *D *H)	442*430*88 (2U~5U)
Display LED	(LCD customized)
Communication port	RS485/CAN
Input/Output connector	Same
Max. discharge/charge current	60~500A
Weight	About15kg



Battery module

Module type	CTSHV48100	CTSHV48206	CTSHV44280	CTSHV48280	CTSHV64280	Other module can be customized
Rated voltage	51.2V	51.2V	44.8V	51.2V	64V	
Rated capacity	100Ah	206Ah	480Ah	280Ah	280Ah	
Rated energy	5.12KWh	10.55KWh	12.54KWh	14.336kWh	17.92KWh	
Dimention (W*D*H,mm)	442*470*154	442*620*234	516*690*234	442*750*234	516*930*234	
Weight`	46kg	83kg	90kg	108kg	128kg	

Product list

Type/parameter		CTSHV48100	CTSHV48206	CTSHV44280	CTSHV48280	CTSHV64280
5 series	Rated voltage	256V	256V	224V	256V	320V
	Voltage range	224~284V	224~284V	196~248.5V	224~284V	280~355V
	Rated energy	25.6KWh	52.75KWh	62.7kWh	71.68KWh	89.6KWh
	Dimention (W*D*H)	600*650*1200mm	600*700*1600mm	600*725*1600mm	600*800*1600mm	600*980*1600mm
	Weight	300kg	510kg	540kg	630kg	710kg
8 series	Rated voltage	409.6V	409.6V	358.4V	409.6V	512V
	Voltage range	358.4~454.4V	358.4~454.4V	313.6~397.6V	358.4~454.4V	448~568V
	Rated energy	40.96KWh	84.4KWh	100.32KWh	114.69KWh	143.36KWh
	Dimention (W*D*H)	600*650*1800mm	600*700*2100mm	600*725*2100mm	600*800*2100mm	600*980*2100mm
	Weight	450kg	820kg	860kg	1050kg	1250kg

14 series	Rated voltage	716.8V	716.8V	627.2V	716.8V	896V
	Voltage range	627.2~795.2V	627.2~795.2V	548.8~695.8V	627.2~795.2V	784~994V
	Rated energy	71.68KWh	147.7KWh	175.56KWh	200.7KWh	250.88KWh
	Dimention (W*D*H)	1200*650*1600mm	1200*700*2000mm	1200*725*2000mm	1200*800*2000mm	1200*980*2000mm
	Weight	790kg	1400kg	1460kg	1700kg	2100kg
17 series	Rated voltage	870.4V	870.4V	761.6V	870.4V	1088V
	Voltage range	761.6~965.6V	761.6~965.6V	666.4V~856.8V	761.6~965.6V	952~1207V
	Rated energy	87.04KWh	179.35KWh	213.18KWh	243.7KWh	304.64KWh
	Dimention (W*D*H)	1200*650*2000mm	1200*700*2300mm	1200*725*2300mm	1200*800*2300mm	1200*980*2300mm
	Weight	950kg	1720kg	1800kg	2050kg	2350kg

Environment

Humidity	5%~95% relative humidity
Charging temperature	0°C~45°C
Discharging temperature	-20°C~60°C
Storage temperature	-20°C~45°C

Service Life

Cycle life	>6000 times (0.5C@25°C, 80%DOD)
Design life	>15 years

Certification

Safety	CE, EMC, TUV (IEC62619)
Transportation	UN38.3, MSDS



If you want new battery module which is not on the list, please contact CTS to customize.

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