

Form

Data form for critical components and material information



Product Service

Applicant name and address..... :	Jiangsu SolarEast Energy Storage Technology Co., Ltd No. 199, Yingzhou South Road Haizhou District 222243 Lianyungang City, Jiangsu Province PEOPLE'S REPUBLIC OF CHINA
Manufacturer name and address . :	Jiangsu SolarEast Energy Storage Technology Co., Ltd No. 199, Yingzhou South Road Haizhou District 222243 Lianyungang City, Jiangsu Province PEOPLE'S REPUBLIC OF CHINA
Name and address of factory / factories..... :	Jiangsu Solareast Energy Storage Technology Co., Ltd No. 199, Yingzhou South Road Haizhou District 222243 Lianyungang City, Jiangsu Province PEOPLE'S REPUBLIC OF CHINA
Project-No./Report-No. :	5040823021304-00
Test item description..... :	Rechargeable Li-ion Battery System
Model/Type reference :	PowerCool-LFP-HV-10 PowerCool-LFP-HV-15 PowerCool-LFP-HV-20 PowerCool-LFP-HV-25 PowerCool-LFP-HV-30 PowerCool-LFP-HV-35
Device type :	<input type="checkbox"/> component / <input type="checkbox"/> sub-assembly / <input type="checkbox"/> equipment / <input checked="" type="checkbox"/> system

Ratings :	PowerCool-LFP-HV-10: DC 102.4V, 102Ah PowerCool-LFP-HV-15: DC 153.6V, 102Ah PowerCool-LFP-HV-20: DC 204.8V, 102Ah PowerCool-LFP-HV-25: DC 256.0V, 102Ah PowerCool-LFP-HV-30: DC 307.2V, 102Ah PowerCool-LFP-HV-35: DC 358.4V, 102Ah
Connection to electrical supply..... :	<input type="checkbox"/> N/A <input type="checkbox"/> Permanent / <input type="checkbox"/> Detachable cord set / <input type="checkbox"/> Non detachable cord set / <input checked="" type="checkbox"/> Direct plug-in / <input type="checkbox"/> Battery operated / <input type="checkbox"/> Others:

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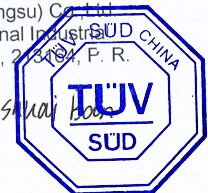
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No.15 Factory Building A, Jintong International Industrial
Park, No.8 Xihu Road, Changzhou, Jiangsu, 213004, P. R.
China
Name of Project Handler: Jishuai Ban



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Overvoltage category	<input type="checkbox"/> I / <input checked="" type="checkbox"/> II / <input type="checkbox"/> III / <input type="checkbox"/> IV / <input type="checkbox"/> N/A				
Pollution degree	<input type="checkbox"/> 1 / <input checked="" type="checkbox"/> 2 / <input type="checkbox"/> 3 / <input checked="" type="checkbox"/> 4 / <input type="checkbox"/> N/A				
Class of protection.....	<input checked="" type="checkbox"/> Class I (PE connected) <input type="checkbox"/> Class II (isolated) <input type="checkbox"/> Class III <input type="checkbox"/> Others: <input type="checkbox"/> N/A				
Product with functional earthing	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A				
Environmental conditions / Maximum ambient temperature (°C).....	Refer to Table for parameters				
Equipment mobility / Classification of installation and use.....	<input type="checkbox"/> transportable / <input type="checkbox"/> portable / <input checked="" type="checkbox"/> stationary / <input type="checkbox"/> mobile / <input checked="" type="checkbox"/> fixed / <input type="checkbox"/> permanently installed / <input type="checkbox"/> hand-held / <input type="checkbox"/> body-worn / <input type="checkbox"/> building-in / <input type="checkbox"/> Others:				
Operating conditions	<input checked="" type="checkbox"/> Continuous / <input checked="" type="checkbox"/> Short-time / <input type="checkbox"/> Intermittent				
Overall size of equipment (mm)	Refer to Table for parameters				
Mass of equipment (kg).....	Refer to Table for parameters				
Degree of ingress protection (IEC 60529, UL 50 / UL 50 E)	IP55				
Noise emission [dB(A)].....	N/A				
Vibration [m/s ²]	N/A				
Connection to hydraulic power	N/A				
Connection to pneumatic power	N/A				
Connection to water installation	N/A				
Description of special features	N/A				
Additional information for Laser equipment, classification according to IEC/EN 60825-1: <input checked="" type="checkbox"/> N/A					
Type:	N/A	Wavelength:	N/A	Output power:	N/A

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Class:	N/A	Pulse duration:	N/A		
Data communication ports: <input checked="" type="checkbox"/> N/A					
Wired ports	<input type="checkbox"/> N/A <input type="checkbox"/> USB <input checked="" type="checkbox"/> LAN <input type="checkbox"/> DALI <input type="checkbox"/> other:				
Wireless ports	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> Wifi <input type="checkbox"/> Bluetooth <input type="checkbox"/> NFC <input type="checkbox"/> 4G/LTE <input type="checkbox"/> 5G <input type="checkbox"/> Other:				
Data Storage/ Processing	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> Local <input type="checkbox"/> Cloud				

Additional
IEC 60601-1 / EN 60601-1 / ANSI/AAMI ES60601-1 / CAN/CSA-C22.2 No. 60601-1:
 N/A

Applied part type	<input type="checkbox"/> B <input type="checkbox"/> BF <input type="checkbox"/> CF <input type="checkbox"/> Defibrillation-Proof <input checked="" type="checkbox"/> No AP
Software Version	N/A

General product information and other remarks:

Main label / Warning Markings:	<p>Rechargeable Li-ion Battery System</p> <p>SolarEast</p> <p>Product Name: Rechargeable Li-ion Battery System Rated Capacity: 102Ah Protection Class: I Max. continuous charging current: DC 50A IP Rating: IP55 Max. Continuous Discharging Current: DC 50A</p> <table border="1"> <thead> <tr> <th>Model</th> <th>No. of Battery Module</th> <th>Rated Energy</th> <th>Nominal Voltage</th> <th></th> </tr> </thead> <tbody> <tr> <td>PowerCool-LFP-HV-10</td> <td>2</td> <td>10.44kWh</td> <td>DC 102.4V</td> <td>IFpP51/161/119/[(116S)25]M/0+50/50</td> </tr> <tr> <td>PowerCool-LFP-HV-15</td> <td>3</td> <td>15.66kWh</td> <td>DC 153.6V</td> <td>IFpP51/161/119/[(116S)35]M/0+50/50</td> </tr> <tr> <td>PowerCool-LFP-HV-20</td> <td>4</td> <td>20.88kWh</td> <td>DC 204.8V</td> <td>IFpP51/161/119/[(116S)45]M/0+50/50</td> </tr> <tr> <td>PowerCool-LFP-HV-25</td> <td>5</td> <td>26.11kWh</td> <td>DC 256.0V</td> <td>IFpP51/161/119/[(116S)55]M/0+50/50</td> </tr> <tr> <td>PowerCool-LFP-HV-30</td> <td>6</td> <td>31.33kWh</td> <td>DC 307.2V</td> <td>IFpP51/161/119/[(116S)65]M/0+50/50</td> </tr> <tr> <td>PowerCool-LFP-HV-35</td> <td>7</td> <td>36.55kWh</td> <td>DC 358.4V</td> <td>IFpP51/161/119/[(116S)75]M/0+50/50</td> </tr> </tbody> </table> <p> Jiangsu SolarEast Energy Storage Technology Co.,Ltd www.solareastess.com </p>	Model	No. of Battery Module	Rated Energy	Nominal Voltage		PowerCool-LFP-HV-10	2	10.44kWh	DC 102.4V	IFpP51/161/119/[(116S)25]M/0+50/50	PowerCool-LFP-HV-15	3	15.66kWh	DC 153.6V	IFpP51/161/119/[(116S)35]M/0+50/50	PowerCool-LFP-HV-20	4	20.88kWh	DC 204.8V	IFpP51/161/119/[(116S)45]M/0+50/50	PowerCool-LFP-HV-25	5	26.11kWh	DC 256.0V	IFpP51/161/119/[(116S)55]M/0+50/50	PowerCool-LFP-HV-30	6	31.33kWh	DC 307.2V	IFpP51/161/119/[(116S)65]M/0+50/50	PowerCool-LFP-HV-35	7	36.55kWh	DC 358.4V	IFpP51/161/119/[(116S)75]M/0+50/50
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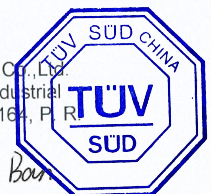
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 China
 Name of Project Handler: Jishuai Ban *Jishuai Ban*





	<div style="background-color: red; color: yellow; padding: 5px; display: flex; justify-content: space-between; align-items: center;"> DANGER </div> <p>DANGER LOW DC VOLTAGE INSIDE DANGER ARC FLASH&SHOCK HAZARD</p> <ul style="list-style-type: none"> *Do not disconnect or disassemble by non-professional personnel. *Do not drop,deform,impact,cut or spearing with a sharp object. *Do not placeatachildrenorpettouchablearea. *Do not place near open flame or flammable material. *Do not cover or wrap the product case. *Do not sit or put heavy things on battery. *Do not touch the leaking liquid. *Avoid of direct sunlight. *Avoid of moisture or liquid. *Make sure the grounding connection set correctly before operation. *If leaking,fire,wet or damaged,switch off the breaker on DC side and stay away from battery. *Contact your supplier within 24 hours if anything failure happens. <div style="display: flex; justify-content: flex-end; align-items: center; gap: 10px;"> </div> <p>Remark:</p> <p>1. Serial no. E932U0012304150000 can trace the manufacture information of the battery system. This is not the actual code and only for example. E9: ESS manufacturer code, E9 represents Jiangsu SolarEast Energy Storage Technology Co., Ltd. 3: brand code, 3 represents ESS. 2U: production code, 2U represents ESS product, 2V represents dummy ESS product, 2W represents Li-ion battery module. 001: production model code, 001 represents one battery module connected in series, 002 represents two battery modules connected in series, 003 represents three battery modules connected in series, 004 represents four battery modules connected in series, 005 represents five battery modules connected in series, 006 represents six battery modules connected in series, 007 represents seven battery modules connected in series. 23: year. 04: month. 15: day. 0000: production serial number. 2.“+”,“-”, are marked near the polarity of the battery system. “+” represents battery positive. “-” represents battery negative.</p>
Description of model differences:	N/A
General information / Intended use:	Refer to Table for parameters
Protective earth connection:	Connected with screw
Drawing(s) / Picture(s):	

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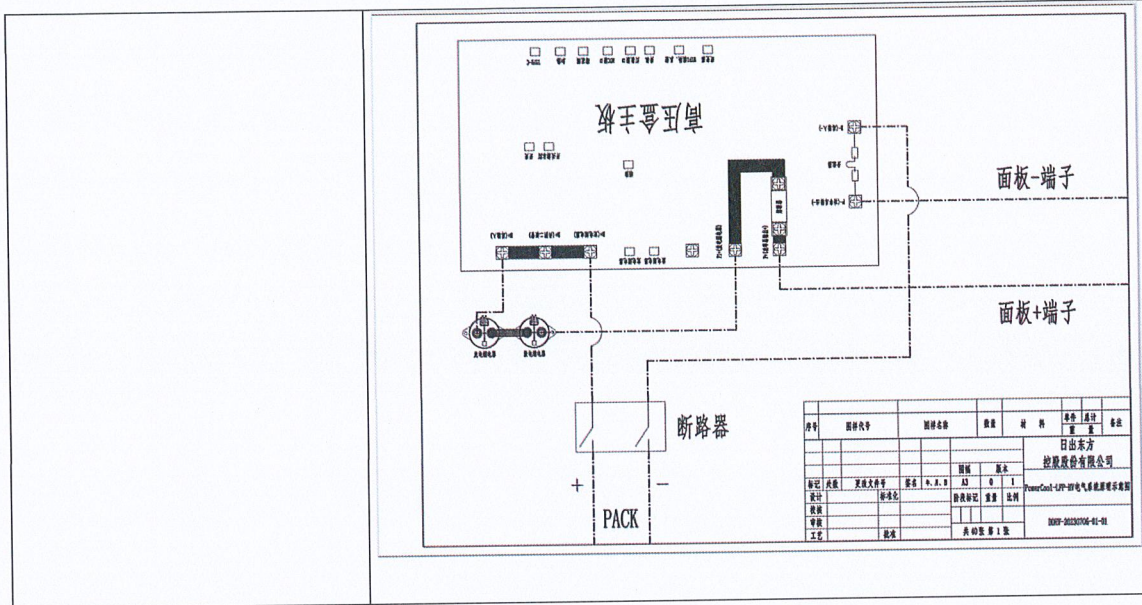


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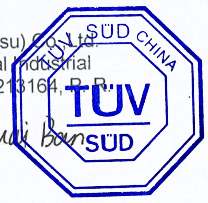
Product name	Rechargeable Li-ion Cell	Rechargeable Li-ion Battery Module	Rechargeable Li-ion Battery System
Type/model	IFP50160116A-102Ah	PowerCool-LFP-HV	PowerCool-LFP-HV-10 PowerCool-LFP-HV-15 PowerCool-LFP-HV-20 PowerCool-LFP-HV-25 PowerCool-LFP-HV-30 PowerCool-LFP-HV-35
Nominal voltage	3.2V	51.2V	PowerCool-LFP-HV10: DC 102.4V PowerCool-LFP-HV15: DC 153.6V PowerCool-LFP-HV20: DC 204.8 V PowerCool-LFP-HV25: DC 256.0V PowerCool-LFP-HV30: DC 307.2V PowerCool-LFP-HV35: DC 358.4V
Rated capacity	102Ah	102Ah	102Ah

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Charging voltage declared by manufacturer	3.65V	3.6V for cell	3.6V for cell
Upper limit charging voltage	3.9V	3.65V for cell	3.65V for cell
Charging current declared by manufacturer	20.4A	20.4A	20.4A
Maximum continuous charging current	50A	50A	50A
Discharging current declared by manufacturer	20.4A	20.4A	20.4A
Maximum continuous discharging current	125A	50A	50A
Discharge cut-off voltage	2.0V	2.8V for cell	2.8V for cell
Lower limit discharging voltage	2.0V	2.6V for cell	2.6V for cell
Standard temperature range for charging	0°C to 60°C	0°C to 57°C	0°C to 57°C
Standard temperature range for discharging	-20°C to 65°C	-3°C to 57°C	-3°C to 57°C
Standard charging method by manufacturer	Charge at constant current 20.4A until voltage reaches 3.65V, then charge at constant	Charge at constant current 20.4A until the max cell voltage reaches 3.6V. Then still for 30min	PowerCool-LFP-HV-10: Charge at constant current 20.4A until the max cell voltage reaches 3.6V, then

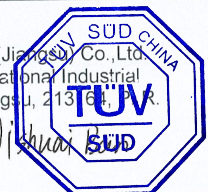
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	<p>voltage 3.65V till current is 5.1A.</p>	<p>followed by charging at constant current 5 A until the max cell voltage reaches 3.6V.</p>	<p>still for 30min followed by charging at constant current 5A until the max cell voltage reaches 3.6V. PowerCool-LFP-HV-15: Charge at constant current 20.4A until the max cell voltage reaches 3.6V, then still for 30min followed by charging at constant current 5A until the max cell voltage reaches 3.6V. PowerCool-LFP-HV-20: Charge at constant current 20.4A until the max cell voltage reaches 3.6V, then still for 30min followed by charging at constant current 5A until the max cell voltage reaches 3.6V. PowerCool-LFP-HV-25: Charge at constant current 20.4A until the max cell voltage reaches 3.6V, then still for 30min followed by charging at constant current 5A until the max cell voltage reaches 3.6V. PowerCool-LFP-HV-30: Charge at constant current 20.4A until the max cell voltage reaches 3.6V, then still for 30min followed by charging at constant current 5A until the max cell voltage reaches 3.6V. PowerCool-LFP-HV-35: Charge at constant current 20.4A until the max cell voltage reaches 3.6V, then still for 30min followed by charging at constant current 5A until the max cell voltage reaches 3.6V.</p>
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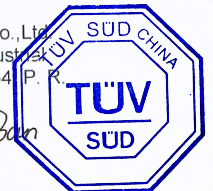
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Charging method for internal short-circuit test	Charge at constant current 50A until voltage reaches 3.65 V, then charge at constant voltage 3.65 V till current is 0.05I _t A (5.1 A)	-	-
Dimension	LxWxH: (49.9±0.5)x(118.5±0.5)x (160±0.8) mm	LxWxH: (720±2)x(420±2)x(173.7±2) mm	PowerCool-LFP-HV-10: (720±2)x(420±2)x(616±3) mm PowerCool-LFP-HV-15: (720±2)x(420±2)x(766±5) mm PowerCool-LFP-HV-20: (720±2)x(420±2)x(916±7) mm PowerCool-LFP-HV-25: (720±2)x(420±2)x(1066±9) mm PowerCool-LFP-HV-30: (720±2)x(420±2)x(1216±11) mm PowerCool-LFP-HV-35: (720±2)x(420±2)x(1366±13) mm
Weight	1.947±0.03 kg	47±2 kg	PowerCool-LFP-HV-10: 116.2±3 kg PowerCool-LFP-HV-15: 163.38±5 kg PowerCool-LFP-HV-20: 210.42±7 kg PowerCool-LFP-HV-25: 257.46±9 kg PowerCool-LFP-HV-30: 304.5±11 kg PowerCool-LFP-HV-35: 351.54±13 kg
Configuration	-	16S	PowerCool-LFP-HV-10: 16S(2S) PowerCool-LFP-HV-15: 16S(3S) PowerCool-LFP-HV-20: 16S(4S) PowerCool-LFP-HV-25: 16S(5S)

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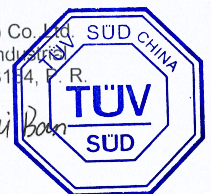
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			PowerCool-LFP-HV-30: 16S(6S) PowerCool-LFP-HV-35: 16S(7S)
<p>Remark:</p> <p>1. The Rechargeable Li-ion Battery System PowerCool-LFP-HV-10, PowerCool-LFP-HV-15, PowerCool-LFP-HV-20, PowerCool-LFP-HV-25, PowerCool-LFP-HV-30, PowerCool-LFP-HV-35 are used in industrial application.</p> <p>2. Rechargeable Li-ion battery system consists of different number of rechargeable Li-ion battery with no. PowerCool-LFP-HV connected in series and one controller box. PowerCool-LFP-HV-10 consists of two rechargeable Li-ion batteries and one controller box. PowerCool-LFP-HV-15 consists of three rechargeable Li-ion batteries and one controller box. PowerCool-LFP-HV-20 consists of four rechargeable Li-ion batteries and one controller box. PowerCool-LFP-HV-25 consists of five rechargeable Li-ion batteries and one controller box. PowerCool-LFP-HV-30 consists of six rechargeable Li-ion batteries and one controller box. PowerCool-LFP-HV-35 consists of seven rechargeable Li-ion batteries and one controller box.</p> <p>3. The rechargeable Li-ion battery PowerCool-LFP-HV consists of 16 Rechargeable Li-ion Cells with model no. IFP50160116A-102Ah connected in series.</p>			



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Object/part No.	Manufacturer/ trademark	Type/Model	Technical Data	Standard	Marks of Conformity
1.Cell	Hefei Gotion High-tech Power Energy Co., Ltd	IFP50160116A-102Ah	DC 3.2Vd.c., 102Ah	IEC 62619-2017	IEC Cert. No.: DK-110904-UL Test Report No.: RESS-4789845567-001
2.Busbar between cells	Changzhou Helong-sheng New Energy Technology Co., Ltd	Al1060	500Vd.c., 200A, 104mm ² , Topr: -40°C~80°C	-	-
3.Busbar of modules	Jiangsu Huansheng Alloy Technology Co., Ltd	Cu	500Vd.c., 200A, 104mm ² , Topr: -40°C~80°C	-	-
4.Insulation sheet for module	SICHUAN DONGFANG INSULATING MATERIAL Co., Ltd	DFR117	0.5mm, V-0, Topr: -40°C~80°C	IEC 60695-11-10	UL E199019
5.Cover plate	KING SCI & TECH Co., Ltd	JH960HT(M1)(sr)	1.5mm, V-0, Topr: -40°C~80°C	IEC 60695-11-10	UL E171666
6.Insulation sheet for pack	Shenzhen Futureway Technology Co., Ltd	SRL-1140F	2mm, V-0, Topr: ≤200°C	IEC 60695-11-10	UL E519126
7.Copper busbar	Jiangsu Huansheng Alloy Technology Co., Ltd	Cu	500Vd.c., 220A, 36 mm ² , Topr: -40°C~80°C	-	-
8.Sampling wire	Dongguan Haode Wire & Cable Technology Co., Ltd	1332	24AWG, 300V, V-1, Topr: ≤200°C	UL 758	UL E364036

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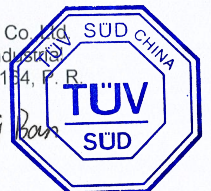


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Object/part No.	Manufacturer/ trademark	Type/Model	Technical Data	Standard	Marks of Conformity
9.LV Sampling connector (male)	Ningbo Degson Electrical Co., Ltd	15EDGKNHB-3.5-16P-14-14A(H)	8.5A, V-0, Topr: -40°C~105°C	UL 508	UL E228872
-Alternative	Ningbo Degson Electrical Co., Ltd	15EDGKNHB-3.5-18P-15-14A(H)	8.5A, V-0, Topr: -40°C~105°C	UL 508	UL E228872
10.LV Sampling connector (female)	Ningbo Degson Electrical Co., Ltd	15EDGKNHB-3.5-16P-14-14A(H)	8.5A, V-0, Topr: -40°C~105°C	UL 508	UL E228872
-Alternative	Ningbo Degson Electrical Co., Ltd	15EDGKNHB-3.5-18P-15-14A(H)	8.5A, V-0, Topr: -40°C~105°C	UL 508	UL E228872
11.Enclosure	Nantong Xingmingjiang Precision Hardware Co., Ltd	Zn-Mg-Al	V-0, 5VB, L*W*H: 720mm*420mm*173mm	UL 94	UL E171666
12.NTC (2pcs for one module)	Suzhou Xinliben Electronics Co., Ltd	SK103F6R1000S T-22#	10KΩ±1%, Topr: -40°C~125°C	-	-
13.FUSE	Xi'an Sinofuse Electric Co., Ltd	RS308-HB-4G100A	AC690V/DC550V, 10A~100A, I _c =50kA, Topr: -40°C~85°C	UL 248-13	UL E353337
14.Connector (Socket/plug)	Amphenol technology(zhuhai)Co.,Ltd	C10-781650-1000/C10-781651-1000	DC 1000V, 120A, Topr: -40°C~125°C	UL 4128	TÜVRheinland Cert No. AK505910490001
15.Module case	Changzhou Helong-sheng New Energy Technology Co., Ltd	ABS+PC	Topr: -20°C~120°C	-	
16.Wiring	WuxiHUAhao Electric Co.,Ltd	10269 4AWG	DC 1000V, Topr: 105°C	UL 758	UL E231903
For high voltage controller box					

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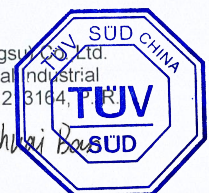
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No.15 Factory Building A, Jintong International Industrial
Park, No.8 Xihu Road, Changzhou, Jiangsu, 213164, P.R.
China
Name of Project Handler: Jishuai Ban



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Object/part No.	Manufacturer/trademark	Type/Model	Technical Data	Standard	Marks of Conformity
17.Positive connector (Socket/plug)	Huizhou Futronics Electronic Technology Co., Ltd	FSPC80160Z-25A4/FSPC80160Z-M6A	600Vd.c., 125 A, V-0, Topr: -40°C~125°C	UL 4128	UL E524083
18.Negative connector (Socket/plug)	Huizhou Futronics Electronic Technology Co., Ltd	FSPC80160W-25B4/FSPC80160WZ-M6B	600Vd.c., 125 A, V-0, Topr: -40°C~125°C	UL 4128	UL E524083
19.Relay	Xiamen Hongfa Electroacoustic Co., Ltd.	HFZ16V-150/900-24-SHSAL5E-1	750Vd.c., 150A, Coil DC 24V, I _c =1500A, Topr: -40°C~85°C	UL 60947-4-1	UL E133481
20.DC Shunt	Doublecircle	UFL-100A	L*W*H: (18±0.2)*(8.4±0.5)*(25±2)mm, 100A, Topr: ≤125°C	-	-
21.BMS (Bottom board)	Hangzhou LiDe Communications Co., Ltd	BCMU-AH-M-A0-1.0.0.3	Monitoring the cells' temperature and voltage	-	-
-PCB material	YING PAI TECHNOLOGY Co., Ltd	YP-04	130°C, V-0	UL 746A	UL E492700
-Isolation transformer (T7, T8, T9, T10)	TNK	TSQ331	VISO: 1500Vd.c., Topr: -40°C~125°C	-	-
Case	Wan Hong Industrial Corp.	WH-8100	130°C, V-0	IEC 60695-11-10	UL E150608
Varnishes	GUANGDONG JIANXIN TECHNOLOGY CO., Ltd	JS-812	155°C	UL 1446	UL E339578
Wire	SUZHOU YUSHENG ELECTRONIC CO., Ltd	FLW-B*	130°C	UL 60950-1	UL E332529
-Isolation transformer (T1)	TNK	TDB2327	VISO: 3750Vd.c., Topr: -25°C~125°C	-	-

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Name of Project Handler: Jishuai Ban



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Object/part No.	Manufacturer/ trademark	Type/Model	Technical Data	Standard	Marks of Conformity
Platics	Chang Chun Plastics Co., Ltd	T375HF	150°C, V0	UL 94	UL E59481
Varnishes	Guangdong Jianxin Technology Co., Ltd	JS-812	150°C	UL 1446	UL E339578
Magnet Wire	Guangdong Suntek wire Co.,Ltd	xUEW180	180°C	UL1446	UL E234867
Tape	Suzhou Mailaduona Electric Material Co., Ltd	JY313	130°C	UL 510A	UL E188295
Winding Wire	Suzhou Yusheng Electronic Co., Ltd	TIW-B*	34-18 AWG, 130°C	UL 60950-1	UL E332529
-Isolation IC for communication (U35, U36, U37, U43)	2PAI Semiconductor	π122M31	3~5.5V, AC 3750Vrms, Topr: -40°C~125°C	UL 1577	UL E494497
Opticalcoupler (U29, U30, U31)	APSEMI	APV278AE	VISO: AC 5000V, Topr: -40°C~85°C	UL 1577	UL E534710
Opticalcoupler (PC1)	Toshiba Electronic Devices & Storage Corporation	TLP291-GB	VISO: AC 3750V, Topr: -55°C~110°C	IEC 60747-5-5:2020	VDE 40009347
Opticalcoupler (PC2, PC19)	EVERLIGHT	EL817S1(C)(TU)-F	VISO: AC 5000V, Topr: -55°C~110°C	UL 1577	UL E214129
-Relay (G1)	HONGFA	HFE80V-20C	24Vd.c., Topr: -40°C~85°C	UL 508	UL E133481
Fuse (F7)	Shanghai Fullness Electrical Co., Ltd	SPT1800100	1000Vd.c., 30A, I _c =10kA~33kA	IEC 60269-6:2011	TÜVRheinland Report No. R50585551

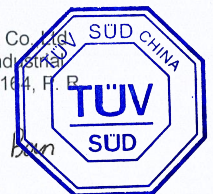
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 Name of Project Handler: Jishuai Ban



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Object/part No.	Manufacturer/trademark	Type/Model	Technical Data	Standard	Marks of Conformity
Fuse (F17)	Xi 'an Zhongrong Electric Co., Ltd	RS309-MF-S100A-3SA	700Vd.c., 100A, I _c =AC100kA or DC50kA, Topr: -40°C~85°C	UL 248	UL E353337
-CAN Communication chip (U40, U41, U54)	Tokmas	TJA1051T	4.5V~5.25V, Topr: -40°C~150°C	-	-
-RS485 Communication chip (U50, U51)	MaxLinear	SP485EEN	4.75V~5.5V, Topr: -40°C~125°C	-	-
-Pre-charge resistance (R110, R113, R116)	Doublecircle	RX27-4A	300Ω, ±5%, 100W, Topr: -55°C~155°C	-	-
-Voltage sampling resistance (R231, R232, R234, R235, R237, R238, R239, R240, R241, R247, R249, R251, R253)	Guangdong Fenghua Advance Technology Holding Co.,Ltd	CSR0204DTDV	1MΩ,±0.1%, Topr: -55°C~125°C	-	-
-NTC on PCB (R303)	XinLan Technology	MF52A ₁ 103F3950	10KΩ,±1%, Topr: -55°C~125°C	-	-
-Power Management IC (U15)	Richtek Technology Corporation	RT8068AZQW	2.7V ~ 5.5V, Topr: -40°C~125°C	-	-
-Power Management IC for current and total voltage sampling (U3)	ADI	AD7606BSTZ	2.3V~5.25V, Topr: -40°C~85°C	-	-
-Fuse (F1, F2, F3, F4, F5, F6, F20)	Wayon	1206WHF500A072V	125Vd.c., 150A, Topr: -55°C~150°C	UL 248-1	UL E311435

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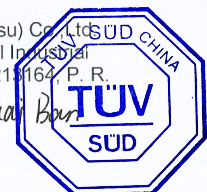
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Name of Project Handler: Jishua: Ban *Jishua Ban*



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Object/part No.	Manufacturer/trademark	Type/Model	Technical Data	Standard	Marks of Conformity
Y capacitor (C28, C29)	SHM	DCF472M46Y5V G6BL0A0	4.7nF, 20%, DIP, Topr: -40°C~125°C	UL 60384-14	UL E154899
22.BMS (Core board)	Hangzhou LiDe Communications Co., Ltd	BCMU-AH-E1-A0-1.0.0.1	Monitoring the cells' temperature and voltage	-	-
-PCB material	YING PAI TECHNOLOGY Co., Ltd	YP-04	130°C, V-0	UL 746A	UL E492700
-MCU (U16)	NXP	MIMXRT1061CV L5B	3V~3.6V, Topr: -40°C~125°C	-	-
-WIFI Communication chip (U2)	Espressif	ESP32-WROOM-32UE	3V~3.6V, Topr: -40°C~85°C	-	-
-Memory chip (U53)	HuaDa Semiconductor	BL24C512A	1.7V~5.5V, Topr: -40°C~85°C	-	-
-Memory chip (U54, U55)	Macronix International Co., Ltd	MX25L12833FM 2I-10G	2.7V~3.6V, Topr: -40°C~85°C	-	-
-Watchdog (U21)	VP	VP706TESA/T	3.3V~5.5V, Topr: -40°C~85°C	-	-

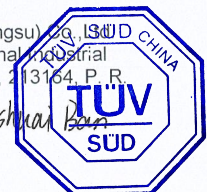
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 China
 Name of Project Handler: Jishuai Pan



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Object/part No.	Manufacturer/trademark	Type/Model	Technical Data	Standard	Marks of Conformity
23.BMS (Slave board)	Hangzhou LiDe Communications Co., Ltd	BMU-C16B-A0-1.0.0.2	Overcharge detection voltage for each cell: 3.65 V, 116.8V/175.2V/233.6V/292V/350.4V/408.8V for battery system PowerCool-LFP-HV-10/ PowerCool-LFP-HV-15/ PowerCool-LFP-HV-20/ PowerCool-LFP-HV-25/ PowerCool-LFP-HV-30/ PowerCool-LFP-HV-35. Over discharge detection voltage for each cell: 2.60V, 83.2V/124.8V/166.4V/208V/249.6V/291.2V for battery system PowerCool-LFP-HV-10/ PowerCool-LFP-HV-15/ PowerCool-LFP-HV-20/ PowerCool-LFP-HV-25/ PowerCool-LFP-HV-30/ PowerCool-LFP-HV-35. Charge overcurrent detection current: 60A, Discharge overcurrent detection current: 60A, High temperature protection: 57°C Low temperature protection: -3°C	-	-
-PCB material	YING PAI TECHNOLOGY Co., Ltd	YP-04	130°C, V-0	UL 746A	UL E492700

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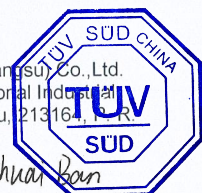
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Object/part No.	Manufacturer/trademark	Type/Model	Technical Data	Standard	Marks of Conformity
-Balanced resistance (R48, R49, R50, R51, R58, R59, R60, R61, R62, R63, R73, R74, R75, R76, R77, R78, R796)	EVER OHMS	2512	10Ω, ±1%, 1W, 200V	-	-
-AFE (U3)	Texas Instruments	BQ79616PAPRQ 1	11V~80V, Topr: -40°C~150°C	-	-
Opticalcoupler (PC3)	Toshiba Electronic Devices & Storage Corporation	TLP291-GB	VISO: AC 3750V, Topr: -55°C~110°C	IEC 60747-5-5:2020	VDE 40009347
Diodes (Q3)	ZETEX	ZXTN4004KTC	Topr: -55°C~150°C	-	-
Supplementary information:					

NRTL - Unrecognized Safety relevant (critical) components subject to verification testing:
N/A

Object / part No.	Verification tests to be conducted	Laboratory of testing / sampling

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Name of Project Handler: Jishuai Ban



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Routine Test (Safety, Security, ...):

N/A, No requirement in standard, Non certification mark project

Model/Type reference:	Tests performed (name of test and test clause):	Test Details:	Test Points:	Test Values:

MHS Test Report History:

Rev	Project No.	History
00	5040823021304	Initial version

Signature of the Certification Holder:

Name, seal and signature of Certificate Holder:	Jiangsu SolarEast Energy Storage Technology Co., Ltd No. 199, Yingzhou South Road Haizhou District 222243 Lianyungang City, Jiangsu Province PEOPLE'S REPUBLIC OF CHINA
Date:	2023-11-15



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