BTS Model Name	CE-7004-150V120A-R28	
Channel Basic Parameters		
Max. Voltage	150V	
Max. Current	120A	
Main Channel Number	4	
ADC Bits	24 Bit	
Control Mode	The CC mode and CV mode are double closed loop structure, each channel is independently controlled.	
Energy Feedback	Full power energy feedback, the feedback energy is given priority to the local load, and the excess energy is feedback to the grid.	
Grid Side Parameters		
Voltage Range	380Vac/400Vac/480Vac ±10%	
Frequency Range	50Hz/60Hz ±5Hz	
Max. Power	80kW	
Power Factor	>0.99	
THDi	<5%	
Wiring	3W+N+PE	
Isolation Type	High Frequency Isolation	
Channel Voltage Parameters		
Charge Voltage Range	0～150V	
Discharge Voltage Range	0V～150V	Support negative voltage discharge (manual reverse charge)
		Add accessories to discharge to 0V (Optional)
Voltage Scales (Optional)	4 Scales (150V, 75V, 45V, 22.5V)	
Voltage Accuracy	±0.05% F.S	
Voltage Resolution	1mV	
Voltage Ripple	±0.5% F.S	
Channel Current Parameters		
Single CH Current Range	-120A～120A	
Parallel CH Current Range	2CH: -240A～240A, 3CH: -360A～360A, 4CH: -480A～480A	
Current Scales (Optional)	4 Scales (120A, 60A, 36A, 18A)	
Current Accuracy	±0.05% F.S	
Current Resolution	1mA	
Min. Cut-off Current	±0.1% F.S	
Channel Power Parameters		
Single CH Max. Power	18kW	
Parallel CH Max. Power	72kW	
Power Accuracy	±0.1% F.S	
Power Resolution	1W	
Charge and Discharge Parameters & Functions		

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Current Response Time	≤10ms(10%～90%)
Charge and Discharge Switching Time	≤20ms(-90%～+90%)
Min. Pulse Width	100ms
Charge Mode	CC, CV, CC-CV, CP, Current Ramp, Pulse, etc.
Discharge Mode	CC, CC-CV, CP, CR, Current Ramp, Pulse, DCIR, etc.
Cut-off/Jump Condition	Voltage, Current, Time, Temperature, Capacity, Energy, -ΔV, Expression Function, etc.
Loop Test Range	1～65535 Times
Editable number of steps	254 Steps
Loop Nesting	Support 3 Layers
Programming Features	There are multiple exits for each step, with "goto" function, which can jump arbitrarily.
Simulation File	Can import the working condition file (DBC format), edit the working condition file according to the communication protocol.
Simulation lines limit	1 Million Rows
Simulation Switching time	100ms
Grid Side Protection	Overvoltage Protection, Overcurrent Protection, Phase Loss Protection, Overheat Protection, Overload Protection, Short Circuit Protection, Communication Interruption Protection, Emergency Stop Protection, etc.
Battery Side Protection	Overvoltage Protection, Overcurrent Protection, Power Failure Protection, Reverse Connection Protection, Communication Heartbeat Protection, Overcapacity Protection, Sampling Line Drop Protection, etc.
Efficiency (Full Load)	>90%
PC Software Parameters & Functions	
Communication Type	TCP/IP Protocol
Functional Test Items	Operating Condition Simulation, Capacity, Internal Resistance, Cycle Life, Charge/Discharge Characteristics, Pulse Charge-Discharge Characteristics, Charge Retention Capability, Charge-Discharge Efficiency, Overcharge/Overdischarge Tolerance, Cell Temperature /Voltage Characteristics, Consistency Assessment , etc.
Software Step Operation	Cut/Paste Step, Forced Step Jump, Condition Jump, Loop Test, etc.
Min. Time Interval	10ms
Min. Voltage Interval	0.1mV
Min. Current Interval	0.1mA
Data protection	Power-Down Data Protection.
	Offline Test.
	Safety protection conditions can be set, setting parameters include: Voltage Upper Limit, Voltage Lower Limit, Current Upper Limit, Current Lower Limit, Delay Time, etc.
Software/System Interface	Database, MES System, LIMS System, etc.

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Peripheral	Communication Ports (Optional)	RS485, RS232, CAN2.0A, CAN2.0B, CANFD, LIN, SMBUS, I2C, Ethernet, etc.
	Devices	BMS, Auxiliary Voltage, Auxiliary Temperature, Environmental Test Box, Water Cooler, Insulation Monitor, Adjustable Power Supply, Equalization Equipment, etc.
Basic Parameters		
Size		W*D*H: 630*680*2000(mm)
Weight		≈ 400kg
Protection Level		IP20
Cooling Type		Air-Cooled
Noise		<75dB
Storage Temperature		-30℃~70℃
Operating Temperature		-10℃~45℃
Humidity		<85% (No Condensation)
Altitude		≤2000m
Customized Functions & Optional Accessories (Charge)		
Charge and Discharge Different Port Module		Test different port batteries, designed according to the maximum voltage, maximum current, and the number of channels.
DC Distribution Box		Used for channels in parallel, designed according to the maximum current (greater than 200A) and the number of channels.
Discharge to 0V Module		Empty the battery completely, designed according to the number of channels.
Voltage Multi-Scale		The channel voltage can be divided into 4 scales at most to improve the voltage accuracy, and the accuracy of each scale is 0.05% F.S.
Current Multi-Scale		The channel current can be divided into 4 scales at most to improve the current accuracy, and the accuracy of each scale is 0.05% F.S.
Voltage Accuracy 0.02%		Channel voltage accuracy is 0.02% F.S (single scale).
Current Accuracy 0.02%		Channel current accuracy is 0.02% F.S (single scale).
Battery Channel Cables		The connection lines between the device and the battery, designed according to the maximum current, length, and terminal type.
Grid Side Cables		The connection lines between the equipment and the power grid, designed according to the maximum current, length, and terminal type.
Auxiliary Channel		Measure the voltage and temperature of the cell inside the battery module, designed according to the maximum voltage of the cell, temperature range, thermocouple type, and number of channels.
Communication Module		Designed according to the communication mode of the peripherals, it can support RS485, RS232, CAN2.0A, CAN2.0B, CANFD, LIN, SMBUS, I2C, Ethernet, etc.
Power Transformer		Designed according to the grid voltage and power level, it can be adapted to the global grid.
Others		Computer, fixture, battery rack, code scanner, etc., customized according to requirements.

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*Each channel is equipped with 1 CAN communication interface for free. *The optional parts marked as "(Optional)" or "(Charge)" are selected by the customer according to the test requirements, and additional fees are required.

Reference Picture	
Equipment Picture	
	The picture is for reference only
Signature：	Date：

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