NEWARE
Since 1998

Specifications

2025-8-25

BTS4000-5V15A Battery Testing System			
SN：		CT-4008Q-5V15A-S1	
Items		**Values**	
Input AC		AC 220V ±10% / 50Hz	
Input power		860	W
Resolution		AD：24 bit；DA：16bit	
Input impedance		≥100MΩ	
Voltage	CV output range	25mV~5V	
	Min discharge voltage	2V(2m wire)	
	Accuracy	± 0.02% of FS	
	Stability	± 0.04%of FS	
Current	Output range/channel	Range1: 300mA; Range2: 3A;Range3: 6A;Range4:15A	
	Minimum output current	0.5% of FS (each independent range)	
	Accuracy	± 0.05% of FS	
	CV cut-off current	± 0.2% of FS (each independent range)	
	Stability	0.1% of FS	
Power	Output power/channel	75	W
	Accuracy	±0.07% of FS	
	Stability	±0.14% of FS	
Time	Current response time	≤1ms (10% ~ 90% of FS)	
	Charge-discharge conversion time	≤10ms (-90% ~ 90% of FS)	
	Working step time	≤(365*24)h/step	Timeformat-00：00：00.000(h、m、s、ms)
Data record	Frequency	10Hz (Minimum time interval: 100ms)	
Charge	Charge modes	CC、CV、CCCV、CP、PCD、CRD、FMD	
	Cut-off condition	Voltage、Current、Time、Capacity、-△V、Custom Variable etc.	
Discharge	Discharge modes	CC、CV、CCCV、CP、PCD、CRD、FMD	
	Cut-off condition	Voltage、Current、Time、Capacity、-△V、Custom Variable etc.	
Pulse	Charge	CC、CP	
	Discharge	CC、CP	
	Min pulse width	100ms	

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	Pulse counts	Up to 32	
	Chg and Dischg switch	Supported	
	Cut-off condition	Voltage、Time	
DCIR		Supported	
Cycle		Max cycles	1~65535
		Max steps	≤255
		Cycle nest	＜10 layers
Protection	Software protection		●Power-off data protection
			●Off-line operation mode
			●User-defined protection conditions, such as upper and lower limited current/voltage,upper capacity limit, delay time, custom variable protection etc.
	Hardware protection		Reverse connection, overvoltage, overcurrent, overtemperature, emergency stop protection, etc
IP (Ingress Protection) Rating			IP20
Channels feature			Independent pairs of closed loop for constant
Channels control mode			Independent control
Data acquisition method			Kelvin connection
Noise			< 75dB (measured at 1m distance)
CPU requirements			Pentium dual-core or above, frequency above 4G.
Memory			16G or above is recommended
Database			MySQL
Communication			TCP/IP
Operating system			Windows7/10
Data export			EXCEL、TXT、CSV、PDF、Plot/Graph
Disk drive			500GB
Communication expansion(optional)			Supports CAN,RS485,and BMS communication, with DBC configuration function
Channels per unit			8
Operation and storage environment requirement			
Items			**Values**
Operation environment temperature			0℃~40℃ (Whenthetemperatureis25±10℃,the accuracy error causedbytemperaturechangeislessthan50ppm/℃)
Storage environment temperature			-10℃~50℃

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Operation environment humidity	≤70%RH(no moisture condensation)
Storage environment humidity	≤80%RH(no moisture condensation)

Clamps and dimensions

Items	**Values**		
Clamps types	Dimensions（W*D*H）(mm)		
Clamps pictures			
	Alligator	Polymer	cable lug Clamp
	Pictures just for reference		
Dimensions（W*D*H）(mm)			
Tester pictures			
	Pictures just for reference		