NEWARE Specifications

IGBT7000-900V1000A Battery testing system

Model：	IGBT7000-	900	V	1000	A	Battery testing system	SN:	CE-7001	-900V1000A

Items		Values	
AC input voltage		AC 380V ±10%/50Hz	
Output power		900	KW
Input current		1519	A/Phase
Input power		1000	KW
Voltage	Constant voltage	90V~900V	
	Min discharge voltage	90	V
	Accuracy	± 0.1% of FS	
	Stabality	± 0.1% of FS	
Current	Output range	5A~1000A	
	Accuracy	± 0.1% of FS	
	CC cut-off current	2A	
	Stabality	± 0.1% of FS	
Power	Max output power/CH	900KW	
	Stabality	±0.2% of FS	
Response time	Current response time	Maximum 100ms	
	Step response time	≤(365*24)hour/step	Time format: 00:00:00.000(h,m,s,ms)
Data	Data record interval	Minimum record interval：100ms	
		Minimum voltage record interval: 1.8V	
		Minimum current record interval: 2A	
	Max frequency	10Hz	
Charge	Charge mode	Constant current, Constant voltage, Constant current and voltage, Constant power	
	Cut-off	Main channel: Voltage, Current, ΔT, ΔCapacity, ΔV	
Discharge	Discharge mode	Constant current, Constant power, Constant resistance	
	Cut-off	Main channel: Voltage, Current, ΔT, ΔCapacity, ΔV	
SIM	Charge mode	Current, Voltage	
	Discharge mode	Current, Voltage	
	Cut-off	Time, Command line number	
	Charge and discharge	Yes	
	Max SIM command lines	100,000	
Cycle	Cycles	Max 65535	
	Steps for each cycle	Max 254	
	Nest for each cycle	Max 3	
Protection	Software Protection	● Power-off data protection	
		● Off-line operation mode	
		● User-defined protection conditions, such as upper and lower limited current/voltage, delay time, temperature, etc.	
Channels feature		Independent pairs of closed loop for constant current source and constant voltage source.	
Energy saving		Discharge energy can be returned to power grid	
Channels working mode		Independent control	
Parallel mode		Yes	
Noise		<75dB	
Database		MySql	
Communication protocal		TCP/IP	
Data export		EXCEL、TXT、CSV、PDF、Plot/Graph	

Harddrive requirement	500GB
Operating system	Windows 7/8/10 64 bit
Communication port	Ethernet port
Items	**Values**
Channel numbers in one set	1
Dimension	W*D*H： 1350*733*1800(mm)

Operation and storage environment requirement

Items	Values
Operation environment temperature	0℃~40℃（When the temperature is 25±10℃, the accuracy error caused by temperature change is less than 50ppm /℃）
Storage environment temperature	-10℃~50℃
Operation environment humidity	≤70% RH(no moisture condensation)
Storage environment humidity	≤80% RH(no moisture condensation)
Equipment picture	

Auxiliary channels

Aux channels (Optional)	Aux types	Temperature, Voltage
	Temperature range	-25℃~110℃
	Temperature accuracy	±1℃
	Temperature resolution	0.1℃
	Voltage range	-5V~5V
	Voltage accuracy	± 0.1％ of FS
Tempearture aux channels for each main		Up to 248
Voltage aux channels for each main		Up to 248
Protection settings for aux channels		Temperatue up-limit, bottom-limit; Voltage up-limit, bottom-limit; ∆V of single cell.