

CE-5008-24V15A-SMB Battery Testing System

SN:		CE-5008-24V15A-SMB	
Items		Values	
Input AC		AC 220V $\pm 10\%$ / 50Hz	
Input power		4000	W (Two inverters)
Resolution		AD: 16 bit; DA: 16bit	
Input impedance		$\geq 1M\Omega$	
Voltage	output range	2.5V~24V	
	Accuracy	$\pm 0.02\%$ of range	
	Stability	$\pm 0.01\%$	
Current	Output range/channel	15mA-15A	
	Accuracy	$\pm 0.03\%$ of range	
	Stability	0.015%	
Power	Output power/channel	± 360	W
	Stability	$\pm 0.05\%$ of FS	
Time	Current response time	Max rising time: 20ms (10%FS~90%FS)	
	Working step time	1~65535min/step	Timeformat-00: 00: 00.000(h、m、s、ms)
Data record	Data record conditions	Time Δt : (0.01s~300s)	
		Voltage ΔU : (5mV~24V)	
		Current ΔI : (15mA~15A)	
	Frequency	100Hz	
Auxiliary Temperature	Probe Type	Thermistor, thermocouple (Type K, Type T) optional	
	Test Range	0 ~ 70 $^{\circ}\text{C}$, (-40 ~ +110 $^{\circ}\text{C}$)	
	Measurement Accuracy	$\pm 1^{\circ}\text{C}$	
	Sampling Rate	5 Hz	
Charge	Charge modes	CC、CV、CCCV、CP、CPCV	
	Cut-off condition	Voltage、Current、Time、Capacity	
Discharge	Discharge modes	CC、CP、CCCV	
	Cut-off condition	Voltage、Current、Time、Capacity	
Cycle		Max cycles	65535
		Max steps	255

		Cycle nest	4,cross-loop jump to any step supported.
Protection	Safety protection	●Power-off data protection	
		●User-defined protection conditions, such as upper and lower limited current/voltage, delay time, temperature, etc.	
	Hardware protection	●Poka-Yoke, input over-voltage, output over-voltage, input over-current, output over-current, overtemperature, overload, output no-load.	
Channels feature		Energy saving model, discharged energy can be used by charging channels or go back to power grid. Switch frequency up to 200kHz, low power ripple and noise. Compact cabinet design, less room taken. Both voltage and current independently closed loop. Data record frequency up to 100Hz. 1GB memory available for offline mode(data will be saved on the tester if PC offline).	
Channels control mode		Independent control	
Data acquisition method		Kelvin connection	
Noise		< 80dB	
Communication		TCP/IP	
Operating system		Windows7/8/10 64bit	
Data export		EXCEL、TXT、Graphs	
Communication port		Ethernet 100M	
Channels per unit		8	
Operation and storage environment requirement			
Items		Values	
Operation environment temperature		0℃~45℃ (Whenthe temperature is 25±10℃,the accuracy error caused by temperature change is less than50ppm/℃)	
Storage environment temperature		0℃~45℃	
Operation environment humidity		30% ~ 80% RH(no moisture condensation)	
Storage environment humidity		30% ~ 90% RH(no moisture condensation)	
Clamps and dimensions			
Items		Values(Pictures just for reference)	

Tester pictures			
Clamps pictures			
	Alligator	Polymer	Coin
Dimensions (W*D*H) (mm)	500*480*86		
SMBUS features			
Items	Values(Pictures just for reference)		
Hardware compatibility	SMBUS, I2C, up to 100kHz high speed mode.		
Software compatibility	Smart Battery Data Specification Revision 1.1, DBC Editor available for customers to import/edit more types of protocol.		
Data reading frequency	All 8 channels can be configured with different SMBUS communication protocols. SMBUS data reading refresh frequency up to 10 times/s.		
Customized parameters and functions	Customized parameters and functions available.		