





<b>GRS4000-5V20A Battery testing system</b>										
Model:	GRS4000	5	V	20	A	Batterytestingsystem	SN:	CT-4008	-5V20A	- NA
<b>Items</b>						<b>Values</b>				
Input AC						AC 220V/110V ±10% / 50Hz				
Input power						1418 W				
Resolution						AD: 16bit; DA: 16bit				
Input impedance						≥1MΩ				
Voltage	CV output range					25mV~5V				
	Min discharge voltage					2.5V for 2m cable				
	Accuracy					± 0.1% of FS				
	Stability					± 0.1% of FS				
Current	Output range/channel					Range 0.1A to 20A				
	Accuracy					± 0.05% of FS				
	CV cut-off current					0.04A				
	Stability					± 0.1% of FS				
Power	Output power/channel					100 W				
	Stability					± 0.2% of FS				
Time	Current response time					Max rising time:1ms (10%FS~90%FS)				
	Working step time					≤(365*24)h/step Timeformat-00: 00: 00.000(h、m、s、ms)				
Data record	Data record conditions					Min data recordinterval:100ms				
						Min voltage change: 10mV				
						Min current change: 40mA				
Frequency						10Hz				
Charge	Charge modes					CC、CV、CCCV、CP、CCCV forbattery pack				
	Cut-off condition					Voltage、Current、Time、Capacity、-ΔV				
Discharge	Discharge modes					CC、CP、CR				
	Cut-off condition					Voltage、Current、Time、Capacity、-ΔV				
Pulse	Charge					CC、CP				
	Discharge					CC、CP				
	Min pulse width					500ms				
	Pulse counts					Up to 32				
	Chg and Dischg switch					Supported				
	Cut-off condition					Voltage、Time				
DCIR						Supported				
Cycle	Max cycles					65535				
	Max steps					254				
	Cycle nest					3				
Protection	Safety 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		
Channels control mode	Independent control		
Data acquisition method	Kelvin connection		
Noise	<85dB		
Database	MySQL		
Communicatin	TCP/IP		
Operating system	Windows 7/8/10 64bit		
Data export	EXCEL、TXT、CSV、PDF、Plot/Graph		
Disk drive	500GB		
Communication port	Ethernet port		
Leak Current	<5μA		
Channels per unit	8		
<b>Operation and storage environment requirement</b>			
<b>Items</b>	<b>Values</b>		
Operation environmenttemperature	0℃~40℃ (When the temperature is 25±10℃ , the accuracy error caused by temperature change is less than 50ppm /℃)		
Storage environmenttemperature	-10℃~50℃		
Operation environment humidity	≤70% RH(no moisture condensation)		
Storage environment humidity	≤80% RH(no moisture condensation)		
<b>Clamps and dimensions</b>			
<b>Items</b>	<b>Values</b>		
Tester pictures (Pictures just for reference)			
Clamps pictures			
	Alligator	Polymer	Ring connector
Pictures			
Dimensions (W*D*H) (mm)	12U (19" ) , 600*600*740		