ELP/DCM91 series







OVERVIEW

- Automatic test and data aquisition
- Multichanel System possible (8, 16, 32, 64, 128, 256)
- Battery and solar panel are automatically tested
- Test parameters:
 Pmax, Ipmax, Vpmax, Rpmax, Ishort Vopen, FF, Rs and Rsh
- UI Curve in real time
- PT Curve in 24 h test or custom time set
- Export protocol to excel
- For each battery with the same or different specifications, the test list can be set with different working mode (CV/CC/CR/CW) and different test parameters

- Multi Chanel test the same time (parallel testing, very quick and accurate)
- For each channel, the biggest test steps is 1000 and the smallest step value is 0.001, and the accuracy is very high
- Two-part intelligent search modes are provided, rough search first and then accurate search, by which the Pmax point could be found faster and more accurately.
- It is very suitable for real-time tracking day and night
- Systems from 150 W to 200 KW, current 15 A to 1500 A and voltage from 150 V bis 600 V are possible

Generally the following key parameters of solar battery need to be tested:

Vopen	Open-circuit voltage, is the battery voltage when the battery current is 0					
Ishort	Short-circuit current, is the current drawn from the battery when the resistance of electronic load is 0					
Pmax	The maximum power of the battery. The Pmax point in I-V curve is usually called					
	the maximum power point					
Ipmax	The current value when battery is in the maximum power Pmax					
Vpmax	The voltage value when battery is in the maximum power Pmax					
Rpmax	The resistance value when battery is in the maximum power Pmax					
FF	Fill factor, is the ratio of Pmax to the Vopen and Ishort, that is, Pmax/(Vopen*Ishort					
	FF is an important parameter which effects directly the solar battery performance.					
	The bigger the FF value is, the higher utilization of solar battery to light is.					
Rs	The series resistance of the battery.					
Rsh	The shunt resistance of the battery.					

System:

Model	9100	9104	9105	9106	9107	9108
Channel	8	16	32	64	128	256

The Test System is build by ELP/DCM97XX electronic loads. Customized testsystem on request.

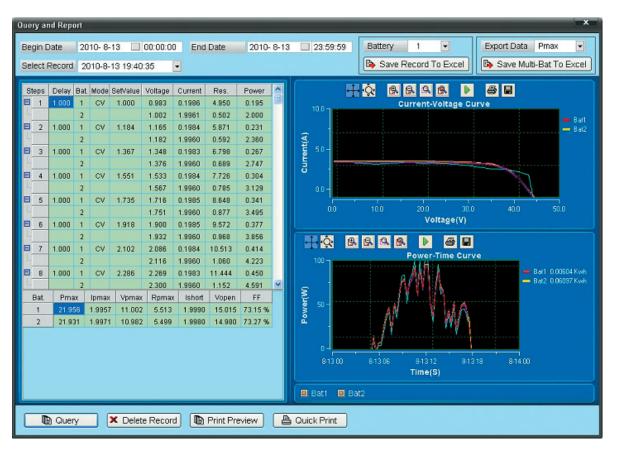


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Screenshots:

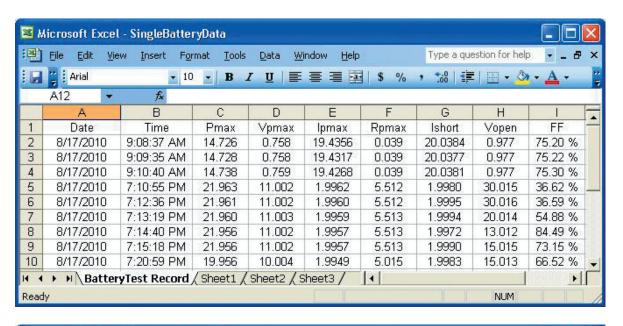


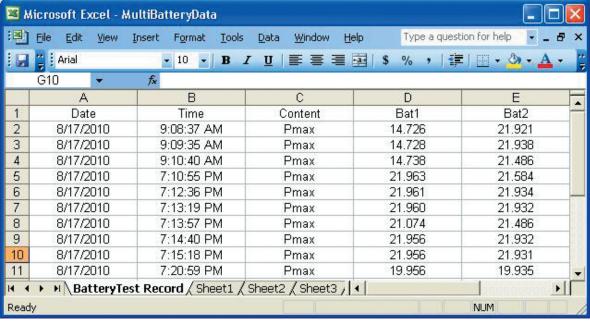






Screenshots:









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