

Bidirectional Battery-Tester

Type BRTS-DC-3867



Continuous transfer from mains supply to energy recovery up to 500 kW

Database system for data acquisition

Client-Server-Tool

Fast 480-channel data logger (option)

Battery safety device (BSD)

High dynamic (transient time < 3msec)

Low ripple < 0.5 %

Electrical isolation

Low mains feed back through P.F.C-

Output load up to 1000 A every channel
(paralleling up to 2 channels)

Intelligent monitoring functions

Autark system with redundant supervision

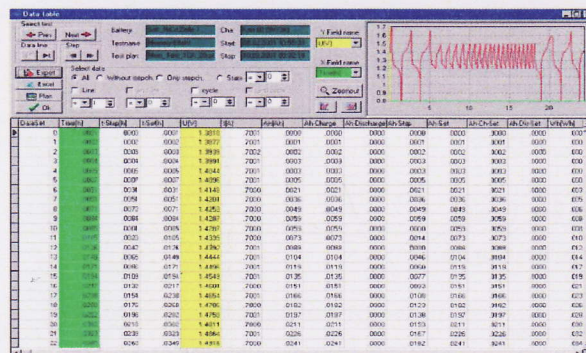
Programmable limits for V, A, kW

Output voltage up to 1000 V

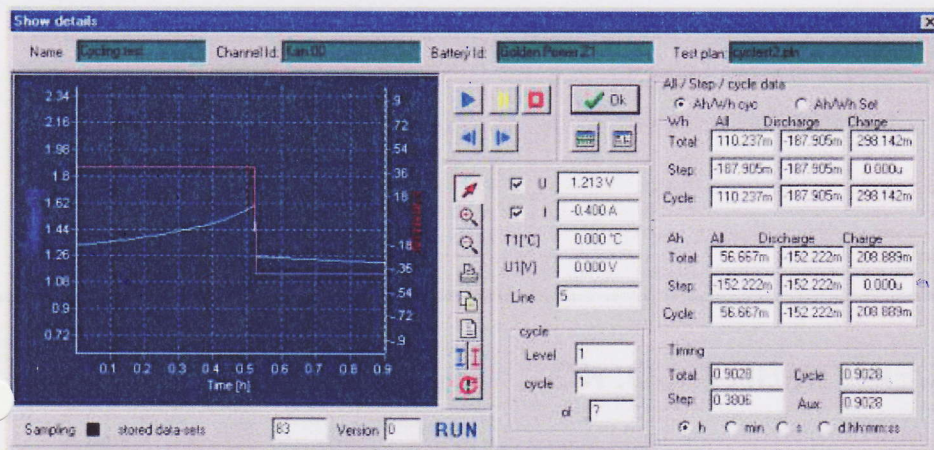
Robust construction for test fields

Natural cooling

Customer specific designs



Level	Label	Command	Parameter	Termination	Action	Registration	Comment
1	Start	Start	Tcell1=60°C		Gate Error		Overtemperature protection
2	Charge	Charge	I=600mA dTcell1/dt=1°C/min UMax U=18mV 12h			1-2min	Charge
3	Cycle start	Cycle start	U<1.0V		Gate READY		Main cycle
4	Discharge	Discharge	I=600mA Ab=0.1CN			1-2min	Discharge 10N
5	Cycle start	Cycle start					Sub cycle
6	@ri_test	@ri_test	I1=100mA I2=500mA Count=5				DC RI Test
7	Cycle end	Cycle end	Count=10				
8	Cycle end	Cycle end					
9	READY	Charge	I=600mA dTcell1/dt=1°C/min UMax U=18mV 12h			1-2min	
10	ERROR	Stop					



**Batterytest
Hard- and
Software from
BaSyTec
enclosed**

The high dynamic 2 quadrant rectifier is particularly developed for the comprehensive performance evaluation by electrical motors for vehicles.

Due to our modern control with PWM-rectifier (IGBT) we achieve a very good rule dynamic over the complete power range.

Extensively configurable interfaces make the integrations in different system environments possible.

Technical Data

Rated capacity	kW	up to 500 kW
Rectifier construction		IGBT, PWM, galvanic isolated ($\lambda > 0,98$)
Input voltage	V	230/400, 3-phase, N, PE
Input frequency	Hz	50 (60) $\pm$ 5%
Output voltage (adjustable)	V	up to 1000
Output current	A	6 to 600
Voltage regulation	static	%
Ripple	%	< 0.5 rms (fs)
Current rise time	msec	< 3
Short-circuit characteristic		short-circuit proof
EMC		according to EN 61000-6-4, EN 61000-6-2
Acoustic noise level	dB(A)	50 – 70
Cooling		„AF“ forced air cooling
Overall efficiency at nominal load	%	typical >94% at 220V DC
Permissible ambient temperature	°C	0 to + 40
Permissible climate		moderate climate according to 3K3, EN60721
Permissible operating altitude		1000 m above m.s.l.
Cabinet dimensions	mm	on demand
Protection class		IP 20 according to EN60529
Paint finish		RAL 7035
Monitoring (configurable)		AC-under voltage with switch off DC-over- and under voltage Current limiting Temperature control
Display / operation:		Digital measurement system LC-Display 4-lines Incremental control Intuitive menu navigation Optional: Operation terminal (CAN – Bus)
Remote signal (configurable floating contacts)		On (clearance controller) Operation / Failure Emergency stop
Options:		http, Ethernet, TFT-Display
For your requirements / specifications we are pleased to prepare an individual system configuration		

Subject to change without notice (tech)

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