

Industrial Battery Tester

IBT Series



- For Testing Traction and Stationary Batteries
- IBT^{TR} Series with Linear Transistor Circuits
- IBT^{THY} Series with SCR Circuits
- IBT^{IGBT} Series with IGBT Circuits
- Current Range: 3 to 600 A
Voltage Range: 5 to 480 V
- Current Range Switching and Paralleling of Circuits
- Fast, Reliable Solid State Switching
- Data Logger Systems via CAN-Bus
- Plug-In Power Modules for Ease of Service (IBT^{TR})
- Compact Design with Front-to-Back Cooling Requires Less Floor Space
- Controlled by Battery Manager or BTS-600 PC Software

General Data

Control Interface:	BTS
PC Software:	Battery Manager or BTS-600
Accuracy I/U for IBT ^{TR} :	± 0.05% Full Scale
Accuracy I/U for IBT ^{THY} :	(20-100%) ± 1% Set Value, (1-20%) ± 0.2% Full Scale
Accuracy I/U for IBT ^{IGBT} :	(10-100%) ± 0.25% Full Scale
Resolution:	± 15 Bit
Data Acquisition Rate:	100 ms
Input Power Supply:	3-phase, 50/60 Hz
Ambient Temperature:	10-40°C (50-104°F)



Individual Technical Data

Model Designation	Current [A]	Voltage [V]	DC Power [kW]	Cabinet Size
IBT ^{TR} 300-18	0.3-300	5-18	4	M
IBT ^{TR} 300-60	0.3-300	5-60	14	M
IBT ^{TR} 600-18	0.6-600	5-18	8	M
IBT ^{TR} 600-60	0.6-600	5-60	28	2 x M
IBT ^{THY} 300-180	0.3-300	20-180	54	E 1
IBT ^{THY} 300-360	0.3-300	40-360	108	E 2
IBT ^{THY} 600-180	0.6-600	20-180	108	E 2
IBT ^{THY} 600-360	0.6-600	40-360	216	E 2
IBT ^{IGBT} 300-480	0.3-300	20-480	80	I 2
IBT ^{IGBT} 400-480	0.4-400	20-480	160	I 4
IBT ^{IGBT} 600-480	0.6-600	20-480	160	I 4
IBT ^{IGBT} 600-480	0.6-600	20-480	240	I 5

Other current and voltage ranges available on request.



Cabinets

Series	Size	Dimensions (H x W x D) [mm]
IBT ^{TR}	M	1950 x 670 x 850 (76.8" x 26.3" x 33.5")
IBT ^{THY}	E 1	2200 x 1000 x 1000 (86.6" x 39.4" x 39.4")
IBT ^{THY}	E 2	2200 x 1600 x 1000 (86.6" x 63" x 39.4")
IBT ^{IGBT}	I 2	2200 x 1000 x 1000 (86.6" x 39.4" x 39.4")
IBT ^{IGBT}	I 4	2200 x 2000 x 1000 (86.6" x 78.8" x 39.4")
IBT ^{IGBT}	I 5	2200 x 3000 x 1000 (86.6" x 118.2" x 39.4")

Options

High Speed Data Acquisition and Control
Single Cell Operation
Additional Voltage, Temperature, Analog Inputs, Inputs for Reference Electrodes
I/O for Auxiliary Devices, RS-232, CAN Interface



Aachen, Germany
 ☎ +49 241 168 090
 ☎ +49 241 166 465
 ✉ info@digatron.de
 🌐 www.digatron.de

Shelton, (CT), USA
 ☎ +1 203 446 8000
 ☎ +1 203 446 8015
 ✉ info@firing-circuits.com
 🌐 www.firing-circuits.com

Qingdao, China
 ☎ +86 532 8870 5292
 ☎ +86 532 8870 5259
 ✉ info@digatron.com.cn
 🌐 www.digatron.com/cn