

Electronic Load System

FCT^{TR} Series



- For Testing Fuel Cells and Other Power Sources
- FCT^{TR} Series with Linear Transistor Circuits
- Low Voltage and Medium Power Test Applications
- Current Range: up to 1200 A
Voltage Range: up to 60 V
Power Range: up to 40 kW
- High Dynamic Regulation
- Low DC Current Ripple
- Current Range Switching and Paralleling of Circuits
- Data Logger Systems via CAN-Bus
- Plug-In Power Modules for Ease of Service
- Compact Design with Front-to-Back Cooling Requires Less Floor Space
- External Control via CAN-Bus or Analog Input
- Controlled by BTS-600 PC Software

General Data

Control Interface:	MicroME
PC Software:	BTS-600
Accuracy:	± 0.1 % Full Scale
Resolution:	± 15 Bit
Data Acquisition Rate:	10 ms
Rise Time (10-90% Load):	< 5 ms
DC Current Ripple:	≤ 1% Full Scale
Input Power Supply:	1-phase, 50/60 Hz
Ambient Temperature:	10–40°C (50–104°F)



Individual Technical Data

Model Designation	I _{max} [A]	U _{max} [V]	U _{max} [V]	Cabinet Size
FCT ^{TR} 480-60/3 kW	480	7.5	60	T 1
FCT ^{TR} 600-60/6 kW	600	10	60	T 1
FCT ^{TR} 600-60/9 kW	600	15	60	T 1
FCT ^{TR} 600-60/24 kW	600	40	60	T 2
FCT ^{TR} 1200-60/40 kW	1200	33	60	T 3

Other current and voltage ranges available on request.



Cabinets

Size	Dimensions (H x W x D) [mm]
T 1	1100 x 670 x 850 (43.3" x 26.4" x 33.5")
T 2	2250 x 670 x 850 (88.6" x 26.4" x 33.5")
T 3	1950 x 1340 x 850 (76.8" x 52.8" x 33.5")

Options

Additional Voltage, Temperature, Analog Inputs
I/O for Auxiliary Devices
RS-232, CAN Interface
Paralleling of Units



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