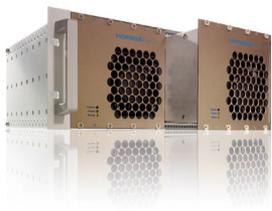


TRUEDATA-LOAD

Modular Electronic DC Load



- Designed for high power applications including fuel cells and batteries
- Cascadable for specific power requirements
- Modular design allows easy expandability to higher current and power
- Two measurement ranges provide outstanding accuracy
- Standard interfaces allow easy integration into any existing hardware



EMISSIONS



ELECTRIFICATION



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TRUEDATA-LOAD

The TrueData-LOAD are cascadable electrical DC load modules. Depending on the power and performance requirements, they are grouped cascaded to complete units with maximum 1,000 A or 20 kW. A digital interface is used to control each group of modules. The communication between all installed modules is achieved using an internal control-bus (master-slave architecture). The electronic load modules are designed to allow full current operation at very low input voltages.

GENERAL FACTS	6 V	35 V	100 V	300 V
MAXIMUM INPUT VOLTAGE	Range: 6 V, 2.5 V	Range: 35 V, 2.5 V	Range: 100 V, 2.5 V	Range: 300 V, 2.5 V
MIN. VOLTAGE (@IMAX) MIN. OPERATING VOLTAGE	0.3 V 0.04 V	0.3 V 0.04 V	0.5 V 0.07 V	1.7 V 0.3 V
CURRENT ACCURACY VOLTAGE ACCURACY	± (0.05 % FS + 0.08 % of value)			
AUTO PROTECTION	Current limitation, Thermal cut-off			
CURRENT SLEW RATE	800 µs (10..90 % I _{max})			
INTERFACE	CANOpen, RS 232			
POWER SUPPLY	110 V _{AC} , 240 V _{AC} selectable, 20 W			
HOUSING	135 x 128 x 320 mm (1/3 19" slot 3HE), appr. 5.0 kg			

AIR COOLED	100 A, 6 V, 600 W	100 A, 35 V, 600 W	50 A, 100 V, 600 W	50 A, 300 V, 450 W
MAXIMUM CONTINUOUS POWER	600 W (T _a = 20 °C)	600 W (T _a = 20 °C)	600 W (T _a = 20 °C)	450 W (T _a = 20 °C)
MAXIMUM CONTINUOUS CURRENT	Range: 100 A, 4.5 A	Range: 100 A, 4.5 A	Range : 50 A, 2.25 A	Range : 50 A, 2.25 A
MAX. POWER OVERLOAD	600 W	1,000 W	1,000 W (U < 50 V)	1,000 W (U < 50 V)
POWER DERATING	10 W/K (T > 20 °C)	10 W/K (T > 20 °C)	8 W/K (T > 20 °C)	8 W/K (T > 20 °C)

WATER COOLED	200 A, 6 V, 1,200 W	200 A, 35 V, 1,800 W	100 A, 100 V, 1,200 W	100 A, 300 V, 900 W
MAXIMUM CONTINUOUS POWER	1,200 W (T _c < 40 °C)	1,800 W (T _c < 40 °C)	1,200 W	900 W
MAXIMUM CONTINUOUS CURRENT	Range: 200 A, 9 A	Range: 200 A, 9 A	Range: 100 A, 4.5 A	Range: 100 A, 4.5 A
COOLANT FLOW	5 l/min for a group of 3 modules			

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