



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
- Display with controller available to operate as stand-alone system
- Charge / discharge, booster power supply, cyclic voltammetry & linear sweep voltammetry options

HORIBAFuelCon

TrueData-LOAD

GENERAL FACTS

	6V	35V	100V	300V
Maximum input voltage	Range: 6 V, 2.5 V auto ranging	Range: 35 V, 2.5 V auto ranging	Range: 100 V, 2.5 V auto ranging	Range: 300 V, 2.5 V auto ranging
Min. voltage (@ I _{max}) 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) ± (0.03 % FS + 0.05 % of value)		
Auto protection		Current limitation, Thermal cut-off		
Current slew rate		800 µs (10..90 % I _{max})		
Interface		CANOpen, RS232		
Power supply		110 V _{AC} , 240V _{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 auto ranging	Range: 100 A, 4.5 A auto ranging	Range: 50 A, 2.25 A auto ranging	Range: 50 A, 2.25 A auto ranging
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 auto ranging	Range: 200 A, 9 A auto ranging	Range: 100 A, 4.5 A auto ranging	Range: 100 A, 4.5 A auto ranging
Coolant flow		5 l/min for a group of 3 modules		

The TrueData-LOAD are cascable 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.

Please feel free to download the latest information available at www.horiba-fuelcon.com. If you have any questions, please do not hesitate to contact us. We will be happy to support you and discuss your testing requirements!

HORIBA FuelCon reserves the right to make changes at any time without notice.

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HORIBAFuelCon

Steinfeldstr. 1
39179 Barleben | Germany

T +49 39203 514 400
F +49 39203 514 409

info@horiba-fuelcon.com
www.horiba-fuelcon.com