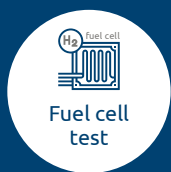


DC source / sink individual: I-TS-3873:

The I-TS-3873 is a customisable high-power DC source/sink (up to 5 MW in parallel operation) that can be individually configured using a wide range of options. Test system for testing battery containers, MCS (megawatt charging), large commercial vehicles and electrolyzers.

Typical applications

- Discharge testing of entire battery containers)
- Battery simulation / battery emulation at very high power levels
- Load testing for fuel cells
- Test power supply for electrolyzers
- Testing of DC motors at very high power levels (powertrain)
- EV / EVSE testing specifically for MCS (Megawatt Charging)



Fuel cell test



Electrolyser test



Battery test



Battery simulation



Powertrain test



Heavy Duty

Basic-Equipment

- Input voltage (standard): 3x 400 V, 50 / 60 Hz
- Main switch (load break switch with fuses in the AC input; lockable in the off position)
- Safety control for Performance Level d (PLd) in accordance with ISO 13849-1 / EN 60204-1
- Touchscreen display
- Battery tester version
- Stop switch (black mushroom switch) in control cabinet door
- Voltmeter and standby indicator in cabinet door
- DC output contactors (standard contactor)
- DC current measurement with 0.1% f.s. accuracy
- Terminals for DC voltage measurement (accuracy 0.1% f.s. with sense leads)
- Terminals for external 'Emergency Stop'
- Terminals for external "Stop"
- Modbus TCP-IP interface
- CAN bus interface ("100 Hz" with dbc file)
- VNC interface via Ethernet
- Protection class (order-specific)



Options (selection; further options available on request)

- (M)I-TS-SV-INP-AC, special input voltage
- (M)I-TS-ISO-3.0, DC insulation monitoring unit
- I-TS-Parallel 3.0, parallel control unit
- (M)I-TS-EM, battery simulator
- (M)I-TS-TEST-EM, switchable battery tester / battery simulator
- (M)I-TS-E-Stopp, emergency stop button (yellow/red) installed in the cabinet door

	I-TS-3873-1500-600-2000	I-TS-3873-1500-1200-2000	I-TS-3873-1500-1800-2000	I-TS-3873-1500-2400-2000	I-TS-3873-1500-2400-2000-2	I-TS-3873-1500-2400-2000-4
DC output parameters						
Power	600 kW	1200 kW	1800 kW	2400 kW	2400 kW	2400 kW
DC voltage	10 – 1500 V					
DC current	± 2000 A					
Channels	1	1	1	1	2	4
Current rise time	≤ 1,4 ms					
Voltage ripple	< 0,1 % fs RMS					
Residual current ripple	< 0,1 % fs RMS					
Accuracy						
Voltage control (CV)	0,1 % fs					
Current control (CC)	0,1 % fs					
Power control (CP)	0,2 % fs					
Voltage measurement	0,1 % fs / 16 bit					
Current measurement	0,1 % fs / 16 bit					
AC input parameters						
Voltage	3/PE AC 400 V (other options available upon request)					
Frequency	50 Hz ± 5 % oder 60 Hz ± 5 %					
Power factor at rated power	> 0,99 ind.					
Conditional rated short-circuit current	50 kA					
Max. power consumption in kVA	640 kVA	2x 640 kVA	3x 640 kVA	4x 640 kVA	4x 640 kVA	4x 640 kVA
Max. AC current @ 400 V -10 %	1030 A	2x 1030 A	3x 1030 A	4x 1030 A	4x 1030 A	4x 1030 A
Galvanic isolation between AC & DC	By default, the DC side is isolated from earth					
Mechanical details for protection class IP 20 (AF air cooling)						
Number of cabinets	upon request					
Dimensions L x W x H in mm	upon request					
Weight in kg	upon request					
Minimum clearance to ceiling	300					
Minimum clearance to rear wall	0					
Door hinge	on both sides					
General data						
Ambient conditions during operation	3K22 / 3M11 +5 to 40°C; 5 – 85% relative humidity, non-condensing					
Max. installation height at rated data	1000 m above sea level; air pressure ≥ 870 hPa					
Cable entry	from below					
Color	RAL 7035; textured paint					

This is just a sample of our product range; we would be happy to assist you in developing a customized project.

Subject to technical changes.