



High Power Test Systems

as a standard solution: I-TS-3840

Bidirectional power supplies for testing and simulating batteries, fuel cells, drives and further components.



Battery test /
emulation



Electrolyzer
test



Fuel cell
test



Power-
train



- Main switch (load-break switch with fuses on the AC connection; can be locked in the off position)
- Safety control for performance level d (PLd) in accordance with ISO 13849-1 / EN 60204-1
- Display with touch operation
- Analog voltmeter in cabinet door
- Switchable tester / simulator
- DC contactors with increased short-time current carrying capacity
- Connection terminals for DC voltage measurement (accuracy 0.1 % with sense lines)
- Connection terminals for external "emergency stop" and "stop"
- Modbus TCP-IP interface; CAN bus ("100 Hz" with dbc file); VNC via Ethernet



You can find our other product series from 80 V DC to 1500 V DC and from 60 kW to 650 kW as well as more detailed information in our catalog, which you can download using this QR code.

	I-TS-3840- 1500-260-800	I-TS-3840- 1500-400-800	I-TS-3840- 1200-320-1200	I-TS-3840- 1200-650-1200
Output parameters				
Power	260 kW	400 kW	320 kW	650 kW
DC voltage	10 - 1500 V	10 - 1500 V	10 - 1200 V	10 - 1200 V
DC current	± 800 A	± 800 A	± 1200 A	± 1200 A
Current rise time	< 1.4 ms	< 1.4 ms	< 1.0 ms	< 1.0 ms
Short circuit proof up to	< 8 kA	< 8 kA	< 15 kA	< 15 kA
Internal resistance	-19 mΩ – 1875 mΩ	-19 mΩ – 1875 mΩ	-10 mΩ – 1000 mΩ	-10 mΩ – 1000 mΩ
Ripple voltage residual	< 0.1 % fs RMS			
Ripple current residual	< 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	380V 3/PE ± 10 %; 400V 3/PE ± 10 %			
Frequency	50 Hz ± 5 %; 60 Hz ± 5 %			
Power factor at rated power	> 0.99 ind.			
Rated conditional short circuit current	50 kA			
Power consumption	274 kVA	431 kVA	342 kVA	685 kVA
AC current max. @ Unom - 10%	439	693 A	549 A	1100 A
Galvanic isolation between AC and DC	included as standard; DC is floating			
Mechanical details IP 20 (AF air cooling)				
Dimensions w x d x h in mm	(1400 + 1200) x 800 x 2200	(1200 + 1200 + 1200) x 800 x 2200	(1400 + 1200) x 800 x 2200	(1600 + 1200 + 1200) x 800 x 2200
Weight in kg	1500 + 1150	1540 + 1080 + 1150	1600 + 1150	2200 + 1080 + 1150
Minimum distance to ceiling in mm	300			
Minimum distance to rear wall in mm	0			
Door stop	right			
Mechanical details IP 54 (WF water cooling via heat exchanger on top)				
Dimensions w x d xh in mm	(1400 + 1200) x 900 x 2555	(1200 + 1200 + 1200) x 900 x 2555	(1400 + 1200) x 900 x 2555	(1600 + 1200 + 1200) x 900 x 2555
Weight in kg	1650 + 1300	1690 + 1230 + 1300	1750 + 1300	2350 + 1230 + 1300
Minimum distance to ceiling in mm	0			
Minimum distance to rear wall in mm	0			
Door stop	right			
General data				
Ambient conditions operation	3K22 / 3M11 +5 to 40°C; 5 - 85 % rel. humidity, w/o condensation			
Permissible installation height at rated load	1 000 m above sea level; minimum air pressure 870 hPa			
Cable entry	from below			
Paint	RAL 7035; full tone textured paint			

Request for quotation

Simply select your desired options and send them directly to vertrieb@gustav-klein.com

TYPE		OPTIONS			
		I-TS-3840- 1500-260-800 260 kW 10 – 1500 V 800 A IP20	I-TS-3840- 1500-400-800 400 kW 10 – 1500 V 800 A IP20	I-TS-3840- 1200-320-1200 320 kW 10 – 1200 V 1200 A IP20	I-TS-3840- 1200-650-1200 650 kW 10 – 1200 V 1200 A IP20
	Quantity				
	IP 54 (with air / water heat exchanger)	☐	☐	☐	☐
	Insulation monitoring (can be switched off)	☐	☐	☐	☐
	Stop button in front door	☐	☐	☐	☐
	Emergency Stop button in front door	☐	☐	☐	☐
	Parallel interface	☐	☐	☐	☐
	Analogue In- and Outputs 0 to 10 V or -10 V to +10 V 4 Inputs CV, CC, CP, Ri 2 Outputs V, C	☐	☐	☐	☐
	Discharge Unit DCU for test subject in a separate cabinet (consultation required)	☐	☐	☐	☐

Your contact details

Company:

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Address:

E-Mail:

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Message:

Reliable Power Solutions.



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