



## di/dt GENERATOR 2000A

### Characteristics

Function: trapezoidal current generator with adjustable di/dt

#### 1.1 Test parameters

Forward current	50 – 2000A
Forward current duration	0.1 – 5ms (measured at the base, current level 0)
Rising current slope +di/dt	5 – 250A/i s
Falling current slope –di/dt	5 – 250A/i s
Amplitude of reverse current	500A (fix)
Reverse current	On/Off
Test pulses	Single shot/ temporary/ continuous
Test frequency	0.5/1HZ 50 – 2000A 2Hz 50 – 1400A 5Hz 50 – 890A

#### 1.2 BNC plug on Front Panel

Current measurement	Shunt 1 mΩ 1V > 1000A
Synchronisation	+di/dt and –di/dt

#### 1.3 LED on Front Panel

Ready	Power supply and safety chain control
Test Pulse	Current pulse applied to the output
Error on parameters	required parameters cannot be applied
Current not reached	the requested current could not be reached
Inductor or R too high	the connections on the output are non-compatible with the required parameters
Overload	Temperature of some internal components too high

#### 1.4 Miscellaneous

Min. rise time	3 ÷ s
Max. adm. external voltage drop	10VDC max.
Efficient output current	140A max.
Ambient temperature	25°C +/- 10°C
Humidity	10-80% relative, non-condensing
Power Supply	230V 50/60Hz 16A

Dimensions	Width 585mm Height 1685mm Depth 1025mm + 260mm table
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Max. positive  $+di/dt$  in function of selected forward current

peak current: A	Max. $+di/dt$ A/s
50	14
100	28
200	70
300	100
750	250
1000	250
1500	250
2000	250

Firing error in "no reverse current" mode

Value of displayed $-di/dt$ : A/s	Firing error if peak current : A
= 30	No firing
50	= 160
100	= 360
150	= 560
200	= 680
250	= 880