CSS 500N2
8/20US CURRENT SURGE GENERATOR

CURRENT SURGE SIMULATOR FOR AIRCRAFT TESTING

CSS 500N2 is an intelligent solution offering exactly what you need for full-compliant immunity tests against transient surge phenomena. The distinct operation features, convenient DUT connection facilities, a clearly arranged menu structure and display philosophy as well as the pre-programmed standard test routines make testing easy, reliable and safe.

The CSS 500N2 generates a surge current pulse with front time of 8us and with a pulse duration of 20us.

HIGHLIGHTS

- Surge current 8/20us up to 1,200A
- Built-in current monitor
- Interlock
- Warning lamp control
- USB and GPIB interface
- 3 switchable current ranges

APPLICATION AREAS

AVIONICS

FOR TESTS ACCORDING TO ...

- EN 61000-4-5
- IEC 61000-4-5
### TECHNICAL DETAILS

#### CSS 500N2 CURRENT SURGE GENERATOR

<table>
<thead>
<tr>
<th>CURRENT SURGE 8US/20US</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Charging voltage</td>
<td>100 - 2,500V</td>
</tr>
<tr>
<td>Output current</td>
<td>Max. 1,200A +10%/-10%</td>
</tr>
<tr>
<td>Pulse front time</td>
<td>8us +20%/-20%</td>
</tr>
<tr>
<td>Pulse time to half value</td>
<td>20us +20%/-20%</td>
</tr>
<tr>
<td>Current range</td>
<td>Range I: 1 - 18 A</td>
</tr>
<tr>
<td></td>
<td>Range II: 6 - 140 A</td>
</tr>
<tr>
<td></td>
<td>Range III: 40 - 1,200 A</td>
</tr>
<tr>
<td>Repetition rate</td>
<td>1 - 100 s</td>
</tr>
<tr>
<td>Polarity</td>
<td>Positive/negative/alternating</td>
</tr>
<tr>
<td>Event counter</td>
<td>1 to 30,000 or endless selectable</td>
</tr>
</tbody>
</table>

#### TRIGGER

- **Automatic**: Automatic pulse release
- **Manual**: Single pulse release
- **External**: External pulse release
- **CRO trigger**: 5V trigger signal for oscilloscope

#### OUTPUT

- **Direct**: Banana plugs

#### MEASUREMENTS

- **CRO I-monitor**: Range I: 1V/A  <br> Range II: 100mV/A  <br> Range III: 10mV/A
- **CRO U-monitor**: 100mV/V, only for measuring residual voltages up to 500V on VDR’s
- **Peak current meter**: 1,200A in the LCD display

#### TEST ROUTINES

- **Quick Start**: Immediate start; easy to use and fast
- **User Test routines**: Change polarity after n pulses, Change charging voltage after n pulses
- **Service**: Service, setup, self test

#### INTERFACE

- **Serial interface**: USB
- **Parallel interface**: IEEE 488, addresses 1 to 30

#### SAFETY

- **Warning lamp**: Floating output contact 250V/5A
- **Safety interlock**: Security switch off

#### GENERAL DATA

- **Dimensions, weight**: 19”/6HU, approx. 25kg
- **Supply voltage**: 115V/230V +10/-15%
- **Fuses**: 2 x 2AT/4AT

www.emtest.com
Information about scope of delivery, visual design and technical data correspond with the state of development at time of release. Subject to change without further notice.