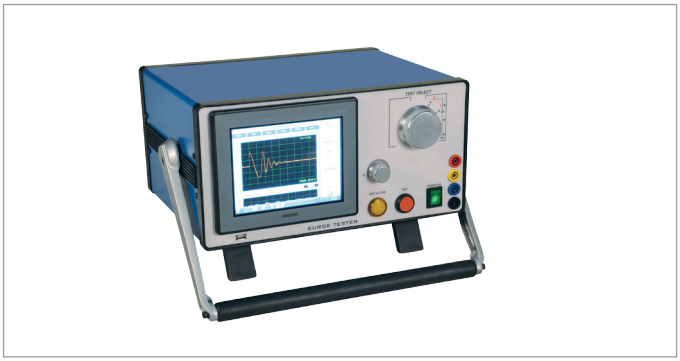
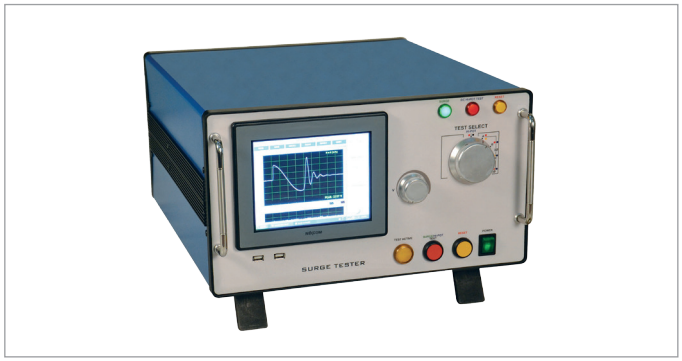
SPS electronic
TRUE GERMAN QUALITY

DATA SHEET

Surge tester series ST 6000



Surge tester ST 6000A
Desktop device



Surge tester ST 6000E / ST 6000H
Desktop device

Description	The surge test is the only option to recognize winding short circuits and insulation faults within a winding even before the fault affects the electrical specifications of the DUT. There is no other test method which detects if the DUT has previous damages and this results in a failure. By quickly applying a charged capacitor to the winding to be tested the stored energy of the capacitor is discharged in the inductance. This results in a sinusoidal, damped oscillation. The frequency and the amplitude are typical for the DUT. With the evaluation of partial discharges the insulation quality of the winding can be tested. This is particularly important if the winding goods is controlled by electronic inverters.			
Surge test		ST 6000A	ST 6000E	ST 6000H
	Voltage range	6,000 V	12,000 V	15,000 V
	Current surge max.	400 A	800 A	1,000 A
	Surge capacity	40 nF	50 nF	
	Surge energy	1.44 J	7.2 J	11.3 J
	DUT inductance	> 24 µH		
High voltage test DC	Voltage range	6,000 V	12,000 V	15,000 V
	Current range	2 mA		
Resistance measurement	Measuring range	1 mΩ to 60 Ω		
Computer technology	Sampling rate	100 MHz		
	Resolution	8 Bit / 10 ns		
	Memory depth	5 MByte		
	Master curves	unlimited		
	Time base	10 µs to 10 ms		
General data	Error message	visual and audible		
	Dimensions (HxWxD) and weight	280 x 450 x 460 mm approx. 25 kg 11.0 x 17.7 x 18.1 in. approx. 55.1 lbs.	250 x 435 x 540 mm approx. 30 kg 9.8 x 17.1 x 21.3 in. approx. 66.1 lbs.	
	Mains supply	115 V / 230 V, 50 Hz / 60 Hz		
Interfaces	Computer interfaces	USB, RS 232, Ethernet / LAN		
Operation	Touch	8“-TFT colour display		

SPS electronic GmbH
Blätteräcker 18 I 74523 Schwäbisch Hall I Germany I Tel. +49 7907 / 878-0 I info@spselectronic.com I www.spselectronic.com