

### Compact Immunity Test System

# **CCS 600**



As per standards	
> EN/IEC 61000-4-4	> EN 61543
> EN/IEC 61000-4-5	> GB/T 17626.5
> EN/IEC 61000-4-8	> GB/T 17626.4
> EN/IEC 61000-4-9	> GB/T 17626.8
> EN/IEC 61000-4-11	> GB/T 17626.9
> EN/IEC 61000-4-29	> GB/T 17626.11
> EN/IEC 61008-1	> GB/T 17626.29
> EN/IEC 61009-1	> ANSI/IEEE C62.41

#### Summary

CCS 600 is an intelligent multifunctional compact immunity (EMS) test system, as per all the requirements of international standards and product standards for transient pulse, surge and voltage dip.CCS 600 is the best option for full compliance immunity test as per the requirements of EU CE certification and CCC certification for single-phase devices. It can be built-in automatic single-phase coupling/decoupling network. Three-phase five-wire test can also be conducted by an external coupling network (up to 100A). You are provided with a variety of required accessories to meet the test requirements, such as power frequency magnetic field test.

### Feature

- > 5.7 inch color touch screen
- > Surge failure detection
- > Data acquisition of surge voltage and current
- > Test scheduling function
- > With multifunctional modules
- > Internal fully automatic single phase CDN 250V 16A; DC-1 110V 12A
- > Available to control external three phase CDN
- >Ethernet, RJ45, PC for remote control, test report documentation and print

## Application

> Communication > Information technology

> Telecom > Military

> Medical > Aviation

> Broadcast and TV > New energy and power

> Railway > Electric Vehicle



### Address

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General data			
Display	5.7inch TFT color touch	Power supply	AC 110V/220V, $\pm 10\%$ ,
	screen		$50/60$ Hz, $\pm 5\%$ (default AC 220V 50Hz)
Fuse	6A	Max power	200W
		consumption	
Memory space		Communication	Ethernet, RJ45
	Infinite (PC)		
		mode	
Dimension	19inch/6U	Weight	Approx.41Kg
(W*H*D)			
Temperature range	15-35°C	Humidity range	45%-75%
Air pressure	86kPa-106kPa		
EFT/burst test as p	er IEC 61000-4-4	<u>'</u>	
Test voltage	0.25kV-4.8KV(±10%)	Source impedance	50 ohm
Polarity	,	Rise time	5ns±30%, 50 ohm load, 1000 ohm load
Pulse waveform	5/50mg 50 show and 1000 show load	Pulse frequency	0.1kHz-1000kHz
Pulse waveform	5/30ffs, 30 offin and 1000 offin load		
Pulse duration		Burst duration	0.075ms-750ms
	50ns-15/+100ns, 1000 ohm load	Test duration	1s-9999s
Burst cycle	11ms-9999ms	Synchronization	0°-360°, 1°step or random
Trigger mode	Automatic, manual or external	CDN	Internal single phase automatic CDN: AC
	241000 4 5		220V 16A Max 250V
SURGE as per IEC	.01000-4-3	<u> </u>	
	0.3kV-6kV (±10%)	Test current	0.15kA-3kA (±10%)
Voltage waveform		Source output	2 ohm
		impedance	
Current waveform		Coupling	9μϜ、18μϜ
	value:20us ±20% Positive, negative, alternative	capacitance Pulse cycle	5s-99s (shortest depends on test voltage)
Polarity			58-998 (Shortest depends on test voltage)
Coupling resistance	10 ohm 0 ohm coupling resistor or customized	Number of test	1–999
	Front penal DNC output gurge		
current peak	Front panel BNC output, surge voltage: 1000V:1V	Synchronization	0°- 360°, 1° step or random
detection	Surge current:500A:1V		
uciccuon	3 digits on display		
Trigger mode	Automatic, manual or external	CDN	Internal single phase automatic CDN
		i e	AC 220V 16A Max 250V



Tuture modern	test equipments		,
Magnetic field strength	TCXS 111 Single-turn coil: : 1-100A/m (continuous) 100-400A/m (1-10s in short time) TCXS 113 Single-turn coil : 1-300A/m (continuous) 300-1200A/m (1-10s in short time)	THID	<5%
Current waveform	50Hz/60Hz sine wave	Operating current range for short time	120A-500A
Continuous operating current range	1A-120A	Test duration	1-28800s
Magnetic field output accuracy	Deviation less than setting output value 1dB (minimal magnetic field intensity like 1A/m needs to be adjusted manually before tests.)		1-9999s
Coil size	1000*1000mm or others	Trigger mode	Auto ,manual, external
Coil turn Output magnetic field strength	Single/three turn Programmable setup	Coil shape	Rectangle or others
Pulse magnetic fiel	ld test as per IEC 61000-4-9 with opti	onal module PMC 12	200
Output magnetic field range	100 A/m-1200A/m	wavelorm	Rise time:6.4us±30%; duration: 16us±30%
Output current	100A-2000A	Polarity	Positive, negative, alternative
Synchronization	0 °- 360 °, 1 °step or random	Pulse cycle	5-99s (the shortest depends on test current)
Trigger mode	Auto ,manual, external	Coil shape	Rectangle
Number of test	1-999	Model of Coil	TCXS 111
Coil size	1000*1000mm	Output magnetic	Programmable setup
Coil turn	Single		
Power fail test as p	er IEC 61000 - 4 – 11 & IEC 61000-4	1-29 with optional mo	odule VVT 2216SV
EUT max. Voltage	250V AC,220V DC	EUT max. current	AC/DC 16A continuous current ; AC 20A continuous 5s; 40A continuous 3s; 500A impulse current
EUT current and voltage measurement	BNC terminal: voltage 100:1, current 10A:1V	Dip level	0%-100% (for VVT/VMT series) 0%, 40%, 70%, 80%(for VVTxxxxSFseries)
		Dip and	



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Dip and		Dip and	
interruption	0.1-9999 cycle or 1ms-9999ms	interruption rise/fall	1-5 μs (100Ωload)
duration		time	
Dip and		Time of Voltage variation decreasing	500ms-9999ms (50%-100%) or 1-5us
	1s-9999s		(100Ω load) 1000ms-9999ms (0%-100%) or 1-5us
duration			(100 $\Omega$ load)
Voltage Variation	0-100%	Duration after	
level		voltage variation	10ms-99999ms
		decreasing	
Time of Voltage variation increasing	500ms-9999ms(50%-100%) 1000ms-9999ms(0%-100%)	Trigger mode	Auto ,manual, external
Synchronization	0 °- 360 °, 1 °step or random		

Models Selection								
Name	Model	IEC 61000- 4-4	IEC 61000-4	IEC 61000-4 -8	IEC 61000- 4-9	IEC 61000- 4-11	IEC 61000- 4-29	CDN single phase three wire
Compact Immunity Test System	CCS 600	√	√	√	√	√	√ V	√
EFT/Burst CDN	EFTN 3816T	V						
Surge CDN	SPN 3816T		$\checkmark$					
EFT/Burst and	SEPN 3816T	V	$\sqrt{}$					
Surge CDN	SEPN 3832T	V	V					
Power frequency	MFT 400			√				
magnetic module	MFT 1200			$\checkmark$				
AC voltage dips,	VVT 2216S					V		
short interruption and variation module	VVT 2216SD					V	V	
	VVT 2216SV					V		
D	VMT 2216S			√		√		
Power fail and Power frequency	VMT 2216SV			√		√		



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## For future modern test equipments



magnetic module	VMT 2216SVD		V		V	V	
Pulsed magnetic converter	PMC 1200			V			

### Standard equipped

Mainframe, user manual, test report and fuse

### **Distributor:**



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