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UCS 500M/6B Ultra Compact Simulator for IEC and **ANSI/IEEE Specifications**



The UCS500M/6B ultra compact simulator tests to ANSI/IEEE C62.41, IEC 610004-4, -5, -8, -9, -11, -12 & -29 specifications for burst, surge, voltage dips, power frequency, magnetic fields, power fail simulation, and ringwave. Design of this simulator exceeds all current standard parameters and it has the capability to support future modifications. A built-in CDN accommodates EUT supply and includes output for external networks. Can be operated from the front panel or remotely, via standard windows-based software.

Burst Module, EFT/6 Electrical Fast Transient Simulator		
Test Level Output	ıt	
	1000-4-4 and EN 61000-6-1, -6-2	
Test voltage	$200V - 5,500V \pm 10\%$	
Wave shape	$5/50$ ns $\pm 30\%$ into 50Ω	
	$5ns \pm 30\%$, $50ns -15/+100ns$ into	
	$1,000\Omega$	
Source impedance	$Zq = 50\Omega$	
Polarity	Positive/negative	
Trigger Circuit		
Trigger of bursts	Automatic, manual, external	
Synchronization	0° - 360°, resolution 1°	
Burst duration	td = 0.1ms - 999.9ms	
Burst repetition ra		
Spike frequency	f = 0.1 kHz - 1,000 kHz	
Test duration	T = 0.01 min - 99.59 min or endless	
Outputs		
Direct	Via 50Ω-coaxial connector	
Coupling mode	L, N, PE; all combinations	
EUT supply	AC: 250V/16A; 16-500Hz	
(TDO)	DC: 250V/10A	
CRO trigger	5V trigger signal for oscilloscope	
Test Dautines		
Test Routines Quick Start	On-line adjustable parameters, easy to	
Quick Start	use	
Standard Test Rou		
Standard Test Rot	acc. to EN 61000-6-1, -6-2	
	Manual Standard Test Ro utine	
User Test Routine		
- Coor rest resulting	Random burst release	
	Change voltage after T by ΔT	
	Frequency sweep within one single	
	burst	
	Frequency sweep with constant	
	number of pulses	
	Frequency sweep with constant	
	burst durat ion	
	Change polarity after T	
Options		
HFK	Capacitive coupling clamp acc. to IEC 61000-4-4	
KW50	100:1 divider, 50Ω	
KW 1000	1000:1 divider; 1000Ω	
A6dB	6 dB attenuator, 50Ω	
TTP	Immunity test probes (electrical field generation)	
ITP/H	Immunity test probes (magnetic field generation)	
CAEFT Cal Kit	Calibration adapter, KW50 and KW1000	
	for EFT pulse verification	

Surge Module, VCS/6 Combination Wave Simulator			
Test Level Output	intor		
acc. to EN/IEC 61000-4-5	5 and EN 61000-6-1: -6-2		
Voltage (open circuit)	$250V - 6,600V \pm 10\%$		
Pulse front time	$1.2 \mu s \pm 30\%$		
Pulse time to half value	$50\mu s \pm 20\%$		
Current (short -circuit)	max. $3,300A \pm 10\%$		
Pulse front time	$8 \mu s \pm 20\%$		
Pulse time to half value	$20\mu s \pm 20\%$		
Polarity	Positive/negative/alternating		
Event counter select	1 - 30,000 or endless		
Pulse counter	1 - 1.000.000		
Trigger Circuit	,		
Release of pulses	Automatic, manual, external		
Synchronization	0° - 360°, resolution 1°		
Pulse repetition rate	max. 0.5Hz (2s - 100s)		
Outputs			
Direct	Via HV-coaxial connector, $Zi = 2\Omega$		
Coupling mode	· · · · · · · · · · · · · · · · · · ·		
IEC 61000-4-5	Line to line with 2Ω		
	Line(s) to ground (PE) with 12Ω		
ANSI C62-41	Line(s) to ground (PE) and line to line with		
11.01.002.11	$\frac{1}{2}\Omega$		
UL	Line(s) to ground (PE) and line to line with		
	12Ω		
EUT supply	AC: 250V/16A; 50/60Hz		
	DC: 250V/10A		
CRO trigger	5V trigger signal for oscilloscope		
Measurements			
CRO Û-monitor	10Vp at 6,600V		
CRO Î-monitor	10Vp at 3,300A		
Peak voltage	6,600V in the LCD display		
Peak current	3,300A in the LCD display		
Test Routines			
Quick Start	On-line adjustable parameters, easy to use		
Standard Test Routines	Acc. to IEC 61000-4-5, level 1 - 4		
	Acc. to EN 61000-6-1, -6-2		
	Manual Standard Test Routine		
User Test Routines	Change polarity after n pulses		
	Change coupling after n pulses		
	Change voltage after n pulses by ΔV		
	Change phase angle after n pulses by ΔA		
Pulsed Magnetic Field	Acc. to IEC 61000-4-9		
	Test levels 100, 300 and 1,000A/m		
	Test level adjustable under in Quick Start		
Options (Delta delta della del			
	CNV504/8 Coupling networks for signal/data lines acc. to IEC 61000-4-5		

REV061203

Power Fail Module, PFS/6 Power Fail Simulator, Dips & Interruptions, Voltage variations	
Voltage Dips & Interru	ptions and Variations
acc. to EN/IEC 61000-4	-11 and EN 61000-6-1, -6-2
Channel PF1 and PF2	AC voltage: max. 250V
	AC current: max. 16A
Frequency	50 / 60Hz
	DC voltage: max. 250V
	DC current: max. 10A
Inrush current	> 500A

Electronic overload protection. Both channels are protected against short-circuit conditions.

Trigger Circuit	
Trigger of events	Automatic, manual, external
Synchronization	0° - 360°, resolution 1° (16 - 500Hz)
Repetition rate	10ms – 99s
Event duration	100µs – 9,900ms

Outputs		
EUT terminals	1	L, N and PE
CRO trigger	i	5V trigger signal for oscilloscope

Measurements	
EUT voltage	In the LCD display
EUT current	In the LCD display
MON V	Measurement of the EUT voltage;
	built-in 100:1 divider
MON I	Measurement of the EUT current;
	10mV/A; max. 1,000A

Test Routines	
Quick Start	On-line adjustable parameters, easy to
	use
Standard Test Routines	acc. to EN/IEC 61000-4-11, AC
	supplies
	acc. to EN/IEC 61000-4-29, DC
	supplies
	acc. to EN 61000-6-1, -6-2
	Manual Standard Test Routine
User Test Routines	Voltage variation, external variac
	control
	Change phase angle after n events by
	ΔΑ
	Change event duration after n events by
	ΔΤ
	Inverse mode
50/60Hz magnetic field	acc. to EN/IEC 61000-4-8
	Test levels 1, 3, 10 and 30A/m with
	external current transformer MC2630
	Test levels 100, 300 and 1,000A/m with
	external current transformer MC26100
Options	
V4070 Tapped auto	otransformer
V4070 S2 Tapped auto	tranformer with automatic change 40-70%
tap	-

tap	
MV2616	Motorised variac (0 – 250V, 16A)
MS100	Magnetic field coil, 1m x 1m
MC2630	Current transformer for magnetic fields up to 30A/m
MC26100	Current transformer for magnetic fields up to
1,000A/m	

Test Level Outputacc. to ANSI/IEEE C62.41 and EN/IEC 61000-4-12Test voltage $250V - 6,000V \pm 10\%$ Voltage wave shape (open ci rcuit)Rise time (first peak) $0.5\mu \pm 30\%$ Oscillatory frequency $100kHz \pm 20\%$ DecayingPeak 2 to peak 1 = 40 - 110%Peak 3 to peak 2 = 40 - 80%Peak 4 to peak 3 = 40 - 80%Current wave shape (short circuit)Rise time $\leq 1.0\mu$ sOscillatory frequency $100kHz \pm 20\%$ Source impedances $12\Omega, 30\Omega$ and 200Ω Short circuit peak currentacc. to selected source impedancePolarityPositive/negativeOutputsDirectVia HV-coaxial connectorCoupling modeL, N, PE; line to line and line to groundEUT supplyAC: 250V/16A; 50/60HzDC: 250V/10ACRO triggerCRO trigger5V trigger signal for oscilloscopeTest routinesQuick StartOn-line adjustable parameters, easy to useStandard Test Routinesacc. to IEC 61000-4-12User Test RoutinesChange voltage after n pulses by ΔV	Ringwave Module, RWG/6 Ringwave Simulator			
Test voltage $250V - 6,000V \pm 10\%$ Voltage wave shape (open ci rcuit)Rise time (first peak) $0.5\mu \pm 30\%$ Oscillatory frequency $100kHz \pm 20\%$ DecayingPeak 2 to peak 1 = 40 - 110\%Peak 3 to peak 2 = 40 - 80\%Peak 4 to peak 3 = 40 - 80\%Current wave shape (short circuit)Rise time $\leq 1.0\mu$ sOscillatory frequency $100kHz \pm 20\%$ Source impedances 12Ω , 30Ω and 200Ω Short circuit peak currentacc. to selected source impedancePolarityPositive/negative Trigger Circuit Release of pulsesAutomatic, manual, externalSynchronization $0^{\circ} - 360^{\circ}$, resolution 1° OutputsDirectVia HV-coaxial connectorCoupling modeL, N, PE; line to line and line to groundEUT supplyAC: $250V/16A$; $50/60Hz$ Direct $50V$ rigger signal for oscilloscope Test routines Quick StartQuick StartOn-line adjustable parameters, easy to useStandard Test Routinesacc. to IEC 61000-4-12	Test Level Output			
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Trigger Circuit Release of pulses Automatic, manual, external Synchronization 0° - 360°, resolution 1° Outputs Direct Via HV-coaxial connector Coupling mode L, N, PE; line to line and line to ground EUT supply AC: 250V/16A; 50/60Hz DC: 250V/10A DC: 250V/10A CRO trigger 5V trigger signal for oscilloscope Test routines On-line adjustable parameters, easy to use Standard Test Routines acc. to ANSI/IEEE C62.41	Short circuit peak current	acc. to selected source impedance		
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Synchronization 0° - 360°, resolution 1° Outputs	Trigger Circuit			
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CRO trigger 5V trigger signal for oscilloscope Test routines On-line adjustable parameters, easy to use Quick Start On-line adjustable parameters, easy to use Standard Test Routines acc. to ANSI/IEEE C62.41 acc. to IEC 61000-4-12	EUT supply	AC: 250V/16A; 50/60Hz		
Test routines On-line adjustable parameters, easy to use Quick Start On-line adjustable parameters, easy to use Standard Test Routines acc. to ANSI/IEEE C62.41 acc. to IEC 61000-4-12	i	DC: 250V/10A		
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Standard Test Routines acc. to ANSI/IEEE C62.41 acc. to IEC 61000-4-12				
acc. to IEC 61000-4-12				
	Standard Test Routines			
User Test Routines Change voltage after n pulses by ΔV				
	User Test Routines			
Change phase angle after n pulses by ΔA				
Change voltage after T by ΔT	!	Change voltage after T by ΔT		

Interfaces Serial RS232 interface with baud rate of 1,200 - 19,200 baud Parallel interface IEEE bus parallel interface, selectable device addresses 1 - 30 Analog output Analogue control output with 0 - 10VDC to control an external transformer CN interface CNI interface with 15pin SubD to control an external coupling network Fail inputs EUT monitoring via Fail1 and Fail2 input (one each) Dimensions Housing Housing 19°, 6HU, L = 532mm Weight approx. 25kg Mains Supply voltage Supply voltage 115 / 230VAC +10% / -15% Power consumption approx. 75W Frequency 50 / 60Hz Fuses 2 x 1AT Safety Safety Safety circuit Control input (24VDC) Warning lamp Floating contact (max. 230V/max. 6A) Accessories Included plug depends on the country of use POWer cord plug depends on the country of use EUT supply cable plug depends on the country of use IEUT adapter socket depends on the country of use ISMIEC software Remote Control plus complete report software Options CNI50 3 3-phase	Comonal Data			
Serial interface Serial RS232 interface with baud rate of 1,200 - 19,200 baud Parallel interface IEEE bus parallel interface, selectable device addresses 1 - 30 Analog output Analogue control output with 0 - 10VDC to control an external transformer CN interface CNI interface with 15pin SubD to control an external coupling network Fail inputs EUT monitoring via Fail1 and Fail2 input (one each) Dimensions Housing Housing 19°, 6HU, L = 532mm Weight approx. 25kg Mains Supply voltage Supply voltage 115 / 230VAC +10% / -15% Power consumption approx. 75W Frequency 50 / 60Hz Fuses 2 x 1AT Safety EN/IEC 61010 Security circuit Control input (24VDC) Warning lamp Floating contact (max. 230V/max. 6A) Accessories Included plug depends on the country of use Power cord plug depends on the country of use EUT supply cable plug depends on the country of use IDT adapter socket depends on the country of use IDST adapter socket depends on the country of use IDT adapter socket de	General Data			
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Parallel interface IEEE bus parallel interface, selectable device addresses 1 - 30 Analog output Analogue control output with 0 - 10VDC to control an external transformer CN interface CNI interface with 15pin SubD to control an external coupling network Fail inputs EUT monitoring via Fail1 and Fail2 input (one each) Dimensions EUT monitoring via Fail1 and Fail2 input (one each) Mains 19°, 6HU, L = 532mm Supply voltage 115 / 230VAC +10% / -15% Power consumption approx. 25kg Mains 50 / 60Hz Frequency 50 / 60Hz Fuses 2 x 1AT Safety Safety standard Safety standard EN/IEC 61010 Security circuit Control input (24VDC) Warning lamp Floating contact (max. 230V/max, 6A) Accessories Included plug depends on the country of use EUT supply cable plug depends on the country of use IEUT supply cable plug depends on the country of use IEUT supply cable plug depends on the country of use IEUT supply cable plug depends on the country of use IEUT supply cable plug depends on the country of use <	Serial interface			
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Analog output Analogue control output with 0 - 10VDC to control an external transformer CN interface CNI interface with 15pin SubD to control an external coupling network Fail inputs EUT monitoring via Fail1 and Fail2 input (one each) Dimensions EUT monitoring via Fail1 and Fail2 input (one each) Mains approx. 25kg Mains 115 / 230VAC +10% / -15% Power consumption approx. 75W Frequency 50 / 60Hz Fuses 2 x 1AT Safety Safety Safety standard EN/IEC 61010 Security circuit Control input (24VDC) Warning lamp Floating contact (max. 230V/max. 6A) Accessories Included power cord Power cord plug depends on the country of use EUT supply cable plug depends on the country of use EUT adapter socket depends on the country of use ISMIEC software Remote Control plus complete report software Options CNI503 3-phase coupling/decoupling network acc. to EN/IEC 61000-4-4 and -4-5 PÜW EUT monitoring kit EUT ada -4-5	Parallel Interface			
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