

# Surge immunity test system SMSUG6.0 Series



Intelligent Lightning Surge Generator is designed for Surge (impact) immunity test requirements with high reliability, intelligent control, user-friendly design and many other features. The object of this product is to establish a common reference for evaluating the immunity of electrical and electronic equipment when subjected to surges and provides a consistent method to assess the immunity of an equipment or system against Surge.

### Applications:

Power systems, LED drivers, Lamps & Luminaries, Electric meter industry, Home appliance industry, Automotive electronics, Low voltage electrical, Automation and Control, Instrumentation, Communications industry, Security electronics, Medical devices and the Mobile phone industry, etc.

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Advance Features	
<ul style="list-style-type: none"> <li>Surge test system as per fully compliant with the new standards of IEC61000-4-5.</li> <li>Easy Programmable operation option by a key setting.</li> <li>Built in intelligent coupling- decoupling network.</li> <li>Impulse injects the phase angle: asynchronous or 0-360 ° free to set.</li> </ul>	<ul style="list-style-type: none"> <li>Large 7 Inch Touch Screen Display with intelligent control panel.</li> <li>Built-in international standard level parameters and user model parameters option.</li> <li>Surge test with fully automatic switching without human operation.</li> <li>Built-in USB interface for remote operation.</li> </ul>

Technical Specifications	SMSUG6.0	SMSUG6.0-1-16	SMSUG6.0-3-16
Output Voltage	0.4 ~ 6 kV ± 10% (open circuit at no load)		
Wave form parameter of Open -circuit voltage	Front time: 1.2µs (± 30%), Duration time: 50µs (± 20%) 0.4~6kV ± 10% (open circuit at no load)		
Wave form parameter of short -circuit current	Front time: 8µs (± 20%), Duration time: 20µs (± 20%) 0.2~ ±3kA ± 10% (short circuit at no load)		
Surge polarity	Positive / Negative / Alternate		

Technical Specifications	SMSUG6.0	SMSUG6.0-1-16	SMSUG6.0-3-16
Phase	Synchronism 0°~ 360° selectable / Asynchronism		
Trigger Mode	Standard: Auto/Manual Optional: External Signal Trigger		
Output impedance	Complex impedance: 2 Ω & 12 Ω		
Coupling path	External CDN from SCDN series to be connected	Built-in CDN, Single Phase Three line, 277V(L-N), Max 16A	Built-in CDN, Three Phase Five line 480V(L-L), Max 16A
Surge count	1 ~ 9999		
Surge interval	5 ~ 9999 s		
Display Screen	7" TFT Color Touch Screen		
Mains supply	AC 230 V±10%, 50 Hz /60 Hz		
Communication Mode	Standard: USB Optional: LAN		
Ambient Temperature	15°C to 45°C		
Relative Humidity	45% ~ 75%		
Standard Supply	<ul style="list-style-type: none"> <li>- Main Equipment, Qty 01</li> <li>- Mains Cord, Qty 01</li> <li>- High Voltage Test Leads, 1 mtr, 01 Pair,</li> <li>- Operating Manual, Qty 01</li> <li>- Factory Test Report, Qty 01</li> </ul>		
Optional Accessories	<ul style="list-style-type: none"> <li>- Software for Remote Control &amp; PC Operation</li> <li>- NABL Accredited Calibration Report,</li> <li>- U<sub>surge</sub> BNC (Voltage Output BNC, 1000:1 (Only for reference))</li> <li>- I<sub>surge</sub> BNC (Current Output BNC, 1000:1 (Only for reference))</li> <li>- High Voltage Test Leads based on CDN selection</li> </ul>		
<b>External CDN Ranges:</b>			
<b>Model</b>	<b>Description</b>		
SCDN-277-1-32	1 phase/3 lines CDN, 277Vac/600Vdc, max current 32A		
SCDN-480-3-XXX	3 phase/ 5 lines CDN, 480Vac/600Vdc, current ranges 32/63/125/200A		
SCDN-690-3-XXX	3 phase/ 5 lines CDN, 690Vac/600Vdc, current ranges 16/32/63/125/200A		
SCDN-691-3-XXX	3 phase/ 5 lines CDN, 690Vac/1000Vdc, current ranges 16/32/63/125/200A		

Subject to Change

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