

## Transmission-Line Pulse (TLP) Systems Comparison

	ESDEMC ES620 (-25, -50, -100,-200) (TLP/VFTLP/HMM/HBM/LV-Surge)	Competitor A (TLP/VFTLP/HMM/HBM)	Competitor B (TLP/VFTLP)	Competitor C (TLP)
<b>Hardware Specifications</b>				
Max Output Voltage (V) (50 Ohm Load Condition)	<b>625/ 1250/ 2500/ 5000*</b>	750/ 1000/ 2000	500/ 1000	500 or 750
Max Injection Current (A) (Short Load Condition)	<b>25/ 50/ 100/ 200*</b>	30/ 40/ 80	20 / 40	10/ 20/ 30
Pulse Polarity	Dual	Dual	Dual	Single (Dual with extra cost)
Rise-Time Selection Range	<b>0.06 to 50 ns</b> Customization available	0.1 to 50 ns	0.2 to 10 ns	0.2, 2, 10 ns
External Rise-Time Filter	Available	Available		
Software Rise-Time Module	Available, 4 or 7 Options	Available, 6 Options		
Pulse-width Range	<b>1 to 3200 ns</b> Customizable	1 to 1600 ns	30, 200 ns	75ns, 100ns 150ns, 500ns
Software Pulse-width Module	Available, 4 or 7 Options	Available, 4 or 7 Options		
Typical Test Speed ( With 1 DC Measurement)	Typically 0.2-1 sec (depends on hardware combinations)	Typically 0.2 - ? sec		
System Dimension	Compact, Bench Top	Bench Top	Bench Top	Rolling Rack Mount
<b>Supported Test Methods / Standards</b>				
TLP Test Method (ANSI/ESD STM5.5.1-2014)	Standard	Standard	Standard	Standard
VF-TLP Test Method (ANSI/ESD SP5.5.2-2007)	Optionally Available	Optionally Available	Optionally Available	NA, Need separate system
HMM Test Method (ANSI/ESD SP5.6-2009)	Optionally Available	Optionally Available		NA, Need separate system
HBM Test Method (ANSI/ESDA/JEDEC JS-001-2014)	Optionally Available	Optionally Available	NA, Need separate system	
LV-Surge Test Method	<b>Optionally Available</b>			
Differential Test Method	<b>Optionally Available</b>			

Measurement / Analysis Features				
50 Ohm Measurement Method	Available	Available	Available	Available
High Impedance Measurement Method	Available	Available	Available	Available
Kelvin 4 Contacts Method	Available	Available	Available	
2 Port differential Injection Method	Available			
IVL Plot with Time Window Cursor	Available			
DUT Failure Check Options	DUT DC Measurement DUT Transient Measurement (breakdown or fuse detection) Manual DUT Failure	DUT DC Measurement	DUT DC Measurement	DUT DC Measurement
Multi-Pulse Degradation Check	Available	Available		
DUT Transient IVL Plot (2D)	Available			
DUT Transient IVT Plot (3D)	Available			
Multi-Point DUT Static Curve (3D)	Available			
Injected Energy vs Time Plot (2D)	Available			
Multi-DUT Automation Testing	Available			
Multi-Channel Data Recording	Available			
Multi-Channel Data Analysis	Available			
Customized Test Solutions	Available			
Error Reducing Methods	SOLZ, Timing, Voltage, Adaptive Scaling, Kelvin Probing			
After Purchase Services and Supports				
Product Services	US domestic on-site installation, training, remote assistance, general test method consulting			
Technology Support	Rolla, MO, USA (China, Beijing available soon)	Munich, Germany	Fremont, CA, USA	Boulder City, NV, USA
System Warranty	2 Years	2 Years		