SPACECRAFT AND SATELLITE POWER TESTING

Power Density and Versatility Revolutionized Power Test Systems for Spacecraft and Satellite Testing

Key Features and Parameters

- 18kW in 2HU – 9X power density of existing systems
- Freely configurable as Solar Array Simulator, Battery Simulator and/or Payload Load Simulator, UniverSAS® is the Power EGSE

Cost Efficient

- Up to 50% of weight and footprint savings
- Up to 90% of energy saving
- Single shot debugging - oscilloscope functionality
- Acoustically quiet, no need for noise protection
- Reduced air condition system consumption

Work Quality is Improved

- Low footprint and easy to transport
- Easy to maintain
- User friendly digital MMI

Green Power SCOE

- Less CO2 emission / light packaging
- Energy saving due to low heat dissipation
- Power saving mode configurations
- Low power consumption: End to end up to 95% efficiency
- Energy is sent back to the grid (source/sink)

Technology Advantage

- Multifunctional and configurable power supply SCOE
- Pyro and DAQ embedded
- Three level of protection (ZLP, FLP, SLP)
- Increased MTBF
- Enhanced software GUI with remote access
- Cyber secured by design
- Fully compatible with international electrical network

Technical Specifications

Power specification		Safety	
AC Input voltage	3 phase 100-528 V AC	Thermal protection	Built in
AC input frequency	45-65 Hz	Thermal management	Fans PWM drive
AC Input current	30 A	Insulation class	4000 V rms
DC Output voltage	0-130 V DC	Safety class	Class II
DC Output current	0-25 A DC	Enclosure degree of protection	Typical 60 dB
DC Output power	18 kW	Operational noise level 50% speed fan	50 dB
Efficiency	Up to 95%	Idle noise level	46 dB
Regulation range	250mV-130 V DC		
Series Operation	Up to 1000 V DC		
Parallel operation	Up to 200 A	**Reliability**	
Output ripple and spikes	100 MV P-P	MTBF	>15 000 hours
Communication interfaces	Ethernet, RS232, USB, SD card	**Environmental conditions**	
Rise time	20 µs	Operating temperature range	-20 to +50 C^0
		Storage temperature	-20 to +85 C^0
Active PFC	Up to 99%		
DC Output capacitance	Configurable from nF 500 to 13,850	Mounting	Rack 19''
		Dimensions	Width – 19 inch
Operation Configuration			
Series operation	Up to 90 kw		
Parallel operation	Up to 90 kw	Weight	Max 30 kg
Remote sensing		**Certificates**	
Safety standard		CE, IEC, ISO, UL	
IEC/EN 61010-1, UL 61010-1, CAN/CSA-C22.2 No. 61010- 1:2012			
EMC standard			
IEC/EN 61326-1			

TERMA
ALLIES IN INNOVATION