

## TC.ACS Programmable AC Source-Sink Series

- Regenerative Grid Simulation
- P-HIL Amplifier
- Complex Electronic Load
- EMC Compliance Testing
- Anti-Islanding Testing

# TC.ACS Programmable AC Source-Sink Series

## Technical Data of TC.ACS Basic Units

Loadside Ratings	TC.ACS.30.528.4WR.LC	TC.ACS.50.528.4WR.LC
Voltage	3 × 0...305 V <sub>RMS</sub> (L-N) 1 × 0...610 V <sub>RMS</sub> (L-L)	
Current	3 × 0...43 A <sub>RMS</sub> 1 × 0...86 A <sub>RMS</sub>	3 × 0...72 A <sub>RMS</sub> 1 × 0...144 A <sub>RMS</sub>
Frequency range	From DC to 1000 Hz (reduced current in the range from DC to 16 Hz)	
Modulation bandwidth	0...5000 Hz (up to the 100th harmonic @50 Hz and 83rd harmonic @60 Hz)	
Slew rate	≤4 V/μs (10...90% step of full scale ≤100 μs)	
Static accuracy voltage	RMS-controller: 0.05% FS General: <1.5 V	
Power factor	0...1	
Overloadability	≤200% up to 1s every 60s ≤150% up to 10s every 600s	
Topology	3L + active N	
Phase connections	3L + N, 2L (double voltage / double current), 1L + N (double current)	
Time delay analog interface (P-HIL interface)	Analog input to power output: <70 μs Measurements power output to analog output: <70 μs	

## Advanced Modular Concept from 30 kVA to 2000+ kVA



50 years of  
innovation  
since 1969



For detailed technical information, contact REGATRON or your local sales partner.

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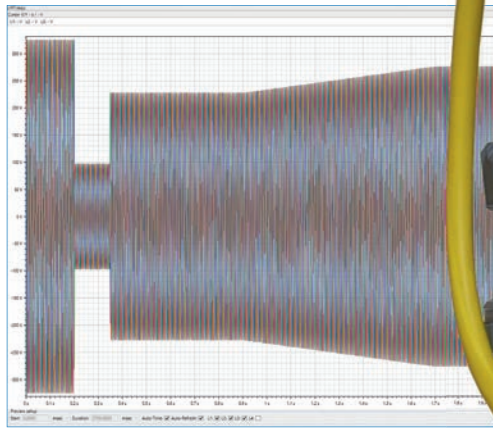
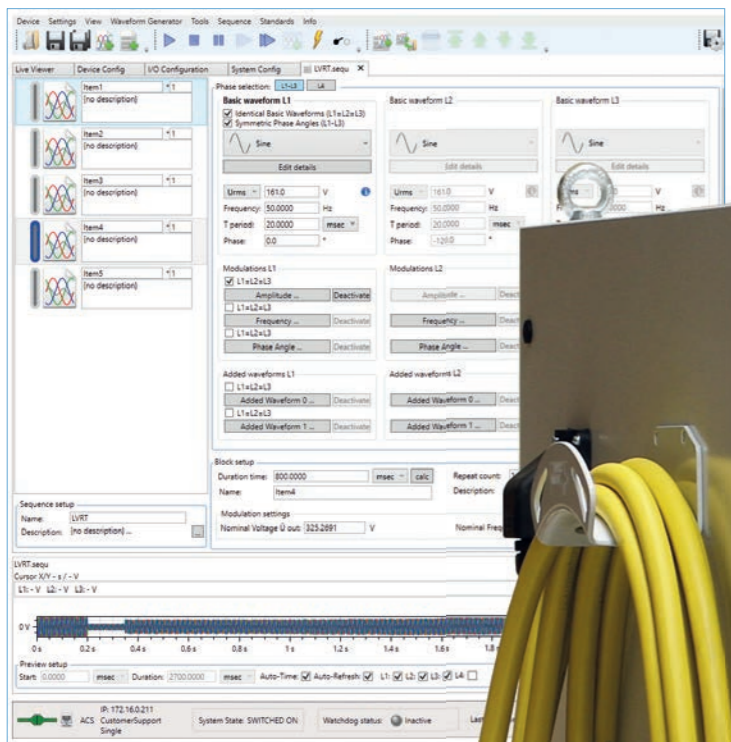
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**REGATRON**  
programmable power supplies

# Your Entry To:

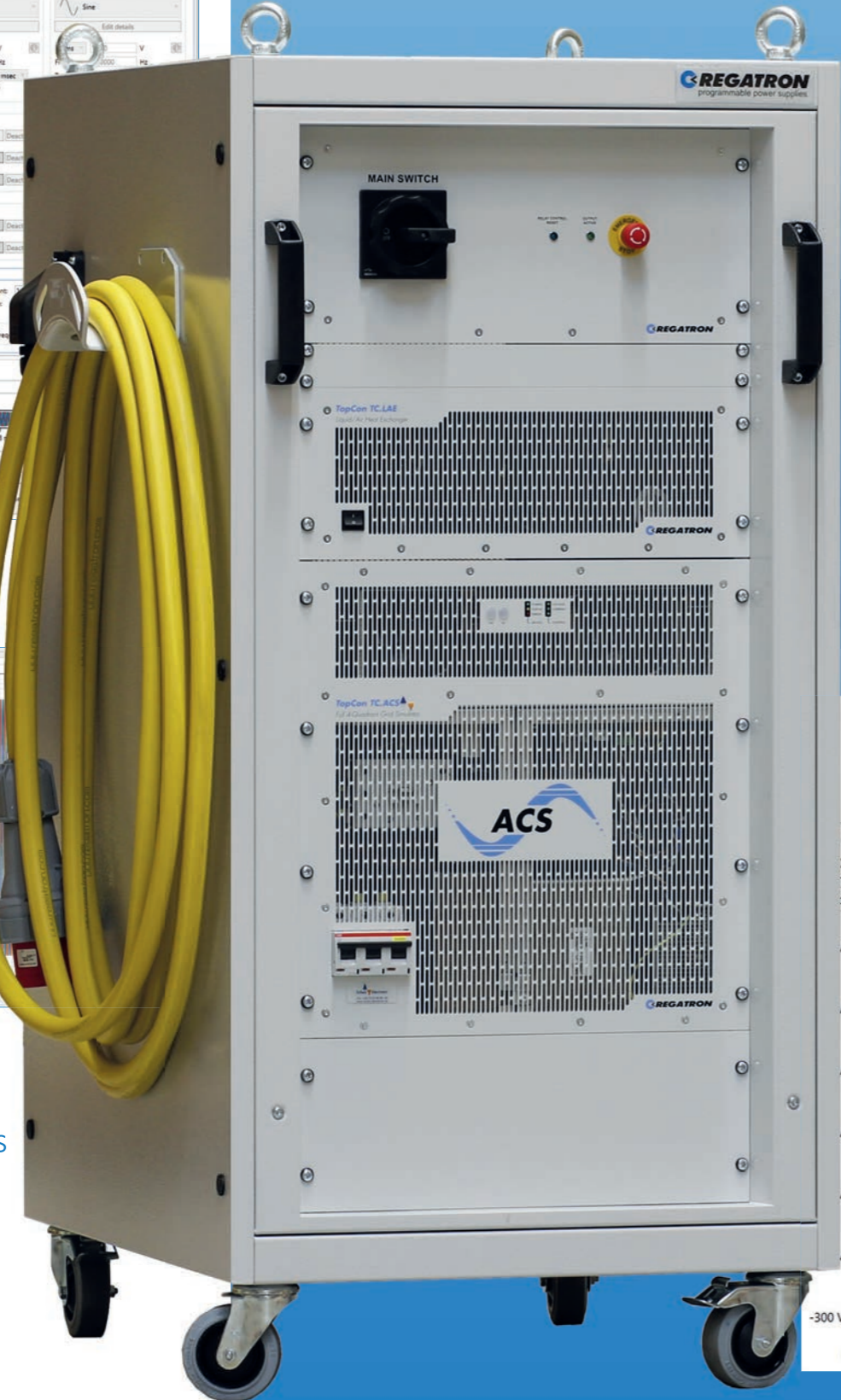


# Versatile Application Software for Grid Simulation



Perform Multifunctional 4-Q Grid Simulations LVRT, HVRT, FRT, Disturbances and many more

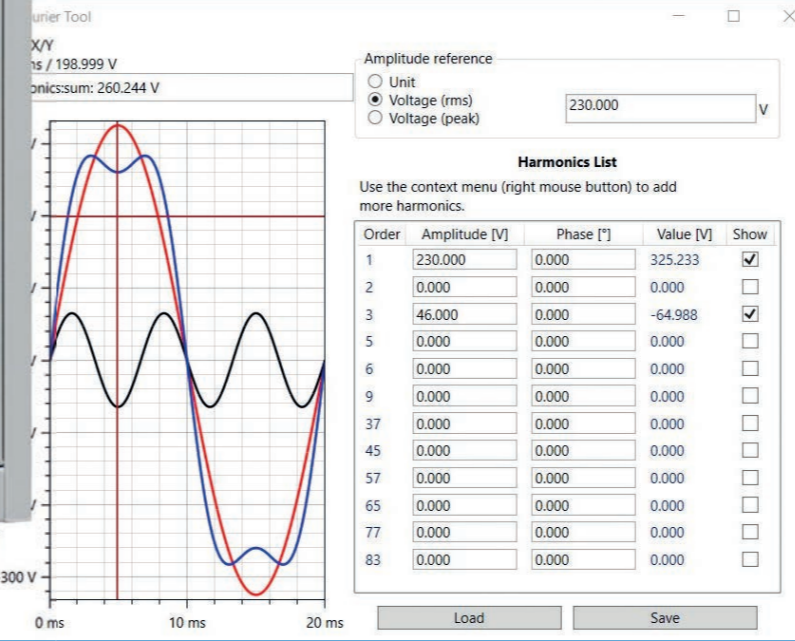
# TC.ACS Programmable AC Source-Sink Series The Most Attractive All-Rounder



Typical Mobile 30 or 50 kVA Grid Simulator e.g. PV Inverter or OBC Testing

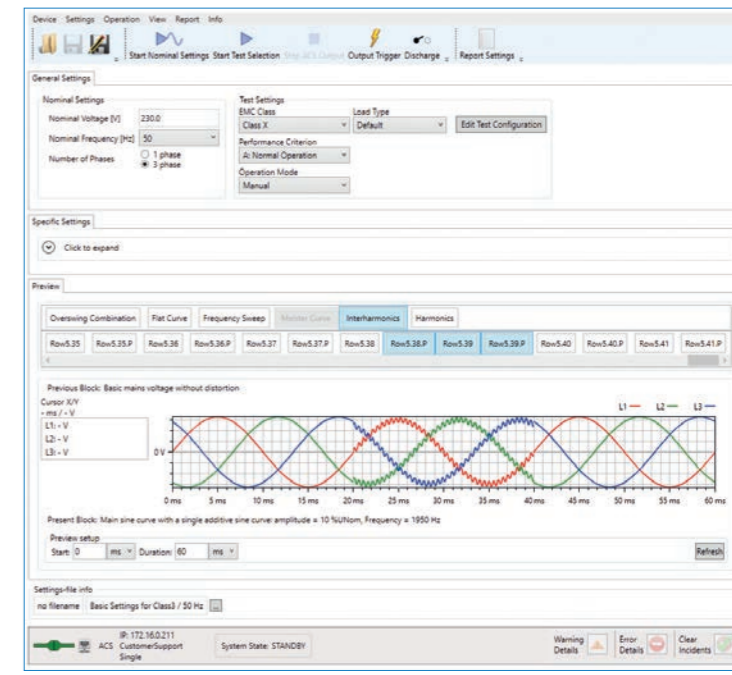
- Full 4 quadrant regenerative Grid Simulator
- Full 4 quadrant Amplifier for P-HIL
- Self-contained RLC AC Load Simulation
- 30 or 50 kVA power modules
- 1 kHz fundamental / 5 kHz modulation bandwidth
- Scalable from a few kVA up to 2000+ kVA range

## Fourier Tool Generate Harmonics



## EMC Testing

- User-friendly GUI with preconfigured IEC/EN Standard Tests
- Test Report Generator included



## RLC AC Load Simulation

- Anti-Islanding Testing
- Simple Motor Simulations

