



GE&EL AC/DC SiC-RSe

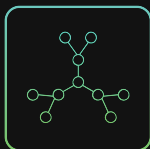
4 Quadrant Regenerative AC Grid Simulator
4 Quadrant Regenerative AC Electronic Load
Regenerative DC Bidirectional Source and Sink

Enhanced

Mixed Mode: Simultaneous and independent use of all functionalities



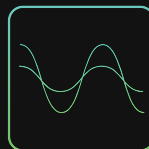
Electromobility



Smart Grids



Photovoltaic



Academic &
Industrial Test



Power HiL



Energy Storage
System

GE&EL AC/DC SiC-RSe

4 Quadrant Regenerative AC Grid Simulator
4 Quadrant Regenerative AC Electronic Load
Regenerative DC Bidirectional Source and Sink

The GE&EL AC/DC SiC-RSe represents a breakthrough in regenerative power conversion technology. This **3-in-1 Rack Series** unit combines AC Grid Simulation, AC Electronic Load, and DC Power Supply functionalities, enabling **simultaneous and independent** operation for unparalleled versatility.

Engineered for high-efficiency R&D, validation, and EoL testing, the SiC-RSe provides precise control and reliable performance for a wide range of applications, including electromobility, EV charging, Vehicle-to-Grid (V2G), smart grids, distributed energy resources (DER), and aerospace testing.

Mixed Mode

A key feature of this unit, unique in the market, is the ability to use all functionalities simultaneously and independently: AC Grid Simulation, AC Electronic Load, DC Bidirectional source/sink, Power Amplifier, Battery Tester/Cycler/Emulator, or PV Panel Emulator.

The Highest Efficiency

Our Rack Series offers the highest efficiency on the market for both sourcing and regenerating energy, resulting in greater energy savings and a reduction in electrical installation rating.

Made in Europe

SiC-RS family products are fully designed and manufactured in Europe, subject to the most rigorous testing, complying with CE marking, safety, EMC and ISO 9001 quality standards.

Regenerative Technology

Like all CINERGIA products, the GE&EL AC/DC SiC-RS allows for the reinjection of used power back to the grid, resulting in a reduction of both consumed energy and required power contributing to a smaller carbon footprint.

SiC Technology

High performance and efficiency

User Friendly Interface

Designed by engineers for engineers

Larger Touchscreen

7-inch display for easy local operation

19-inch Rack format

With 30 kW in a 7U and a 715 mm depth unit, it can be easily mounted into standard 19-inch rack cabinets

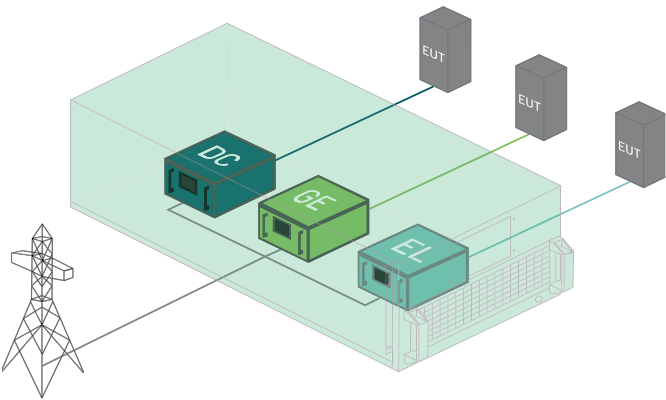
Easy Integration

Analog & digital IO and the open MODBUS/TCP protocol are provided for seamless integration into automated test lines

MIXED MODE

Independent channel control.
Full simultaneous functionality.

The SiC RSe introduces a groundbreaking feature, unique to power converters, enabling concurrent multi-test execution. This functionality optimizes testing resources and provides unparalleled flexibility in complex scenarios.

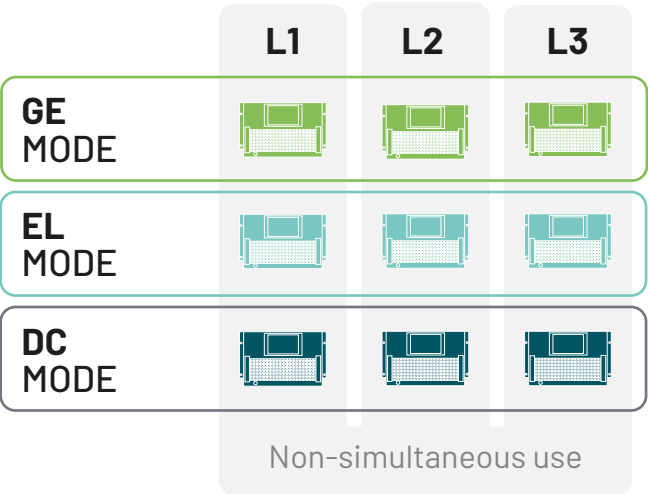


Set up each channel independently,
use all functionalities simultaneously

This unique key feature allows the unit to use all functionalities simultaneously and independently: AC Grid Simulation, AC Electronic Load, DC Bidirectional source/sink , Battery Tester/ Emulator, or PV Panel Emulator.

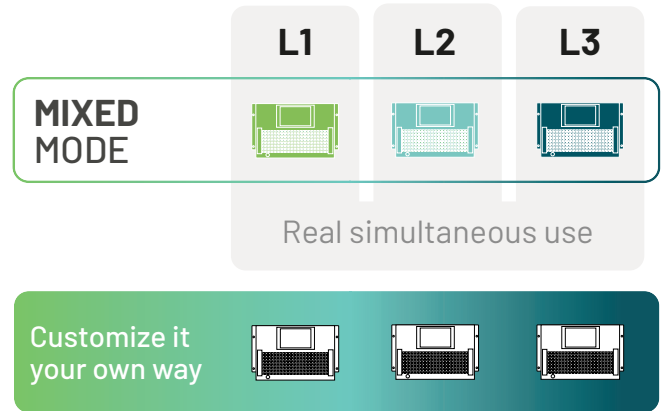
How a 3-in-1 Converter works

Until now, all-in-one converters included all functionalities in a single unit, allowing the possibility of performing different types of tests. With easy configuration, you could set up the unit as a Grid Simulator, Electronic Load, or DC Converter, using 1 to 3 channels, at your convenience. But only one function at a time.



How Mixed Mode works

Now, with Mixed Mode, you can set up any function on each channel and blend functionalities according to your testing application needs. You will be able to use the unit as a Grid Simulator, Electronic Load, and DC Converter at the same time. All functionalities simultaneously and independently. A full testing platform on its own.



Main features

19-inch rack format

30 kW in a 7U and 675mm depth unit,
designed for 19-inch rack cabinets

The cumulative expertise of CINERGIA has been condensed into this compact unit that simultaneously excels in robustness, efficiency and cutting-edge technology for optimal performance.

The compatibility of the Rack Series with universal rack cabinets sets a new standard for space efficiency, modularity, and scalability, resulting in high versatility and easy integration into a comprehensive testing environment.

Easy Integration

Analog & digital IO and the open MODBUS/TCP protocol are provided for seamless integration into automated test lines.

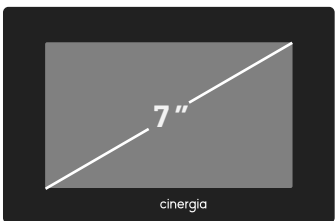


*Rack / cabinet not included

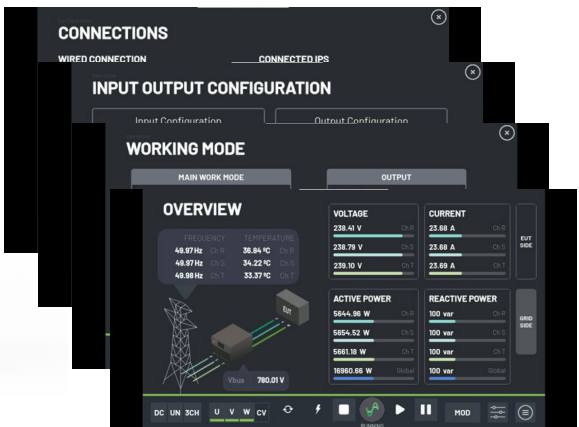
Larger Touchscreen

Enjoy seamless functionality directly at your fingertips

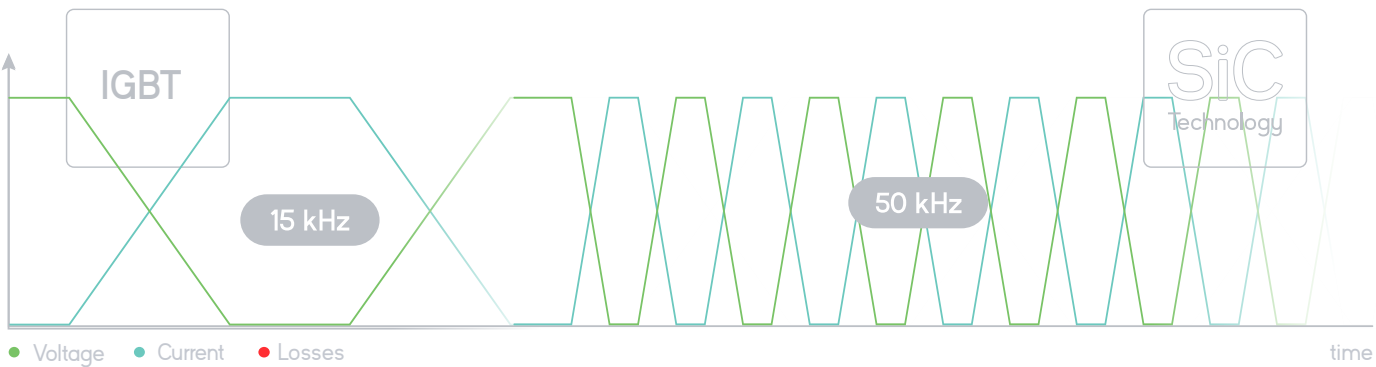
Local control of the unit is easier than ever with the new 7-inch display, the bigger and brighter of its kind:



The LCD provides access to all functionalities of the unit without the need of a computer or ethernet connection: start/stop/reset, channel configuration, running test sequences, plotting and datalogging.

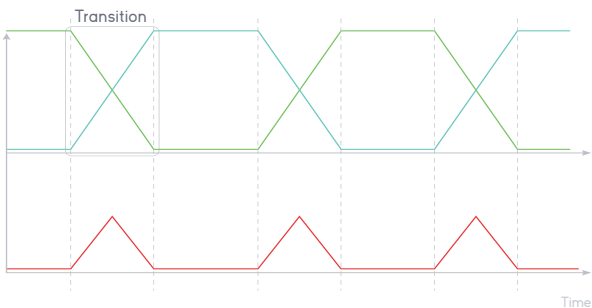


SiC Technology



Transitioning to SiC technology results in an increased switching frequency of the converter, which translates into higher dynamics, faster transients and enhanced performance, making it the perfect candidate for EoL environments, R+D, Validation and Power Hardware in The Loop (PHIL) testing.

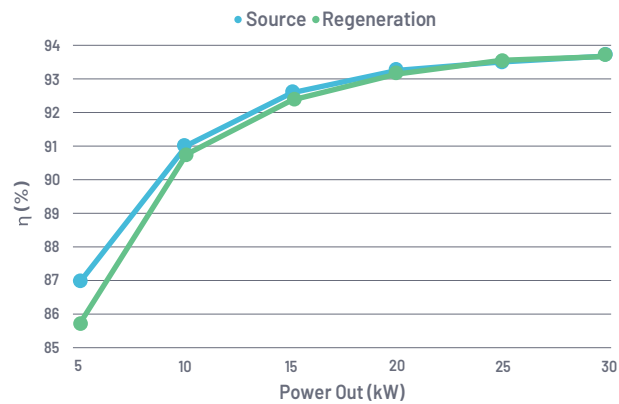
The faster switching time of the SiC MOSFETS reduces the current-voltage crossover duration, and therefore the losses at each commutation, improving overall efficiency.



High Efficiency

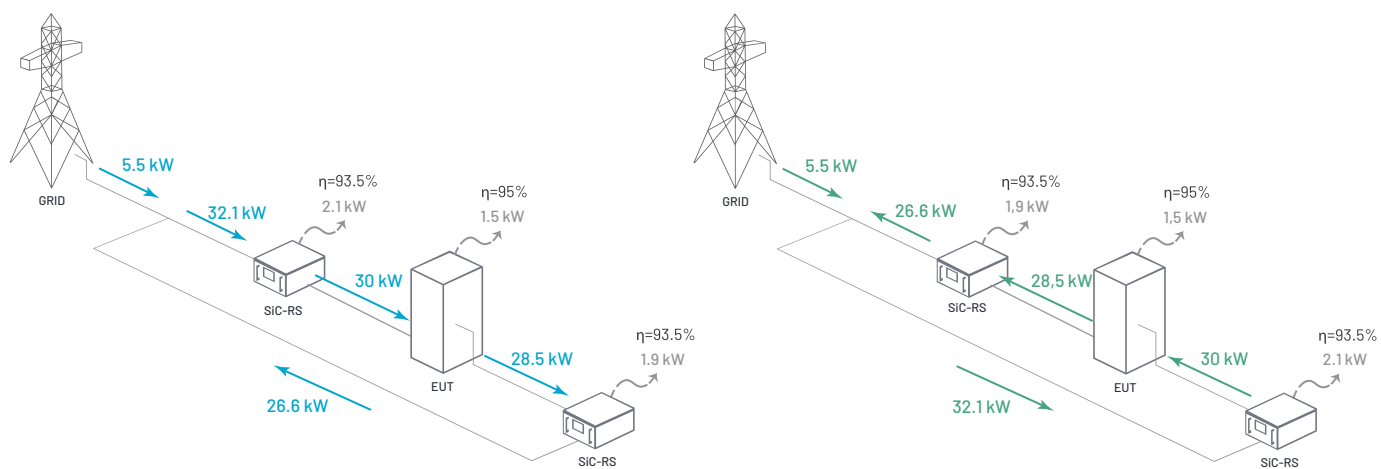
Our Rack Series offers the highest efficiency on the market for both sourcing and regenerating energy, resulting in greater energy savings and a reduction in electrical installation rating.

- **Cost Savings:** Significantly lower electricity bills thanks to minimal energy losses.
- **Heat Dissipation:** Less excess heat generation simplifies thermal management.
- **Environmental Impact:** Reduced carbon footprint due to minimized energy waste and power reinjection
- **Optimized Facilities:** Lower current drawn reduces wire size requirements and CAPEX needs.
- **Regenerative Technology:** The GE&EL AC/DC SiC-RS reinjects energy back to the grid, cutting down on overall consumption and power needs.

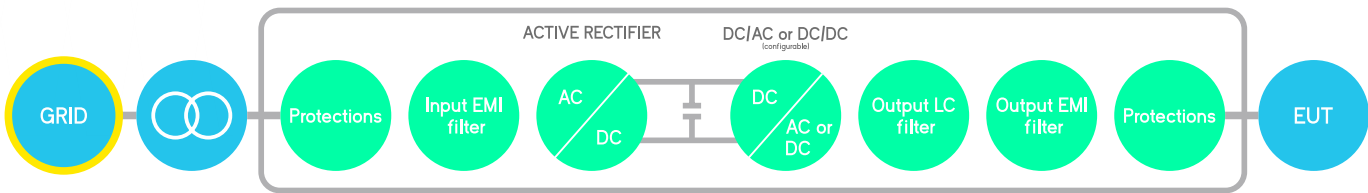


Source

Regeneration



Bidirectional and Regenerative Hardware



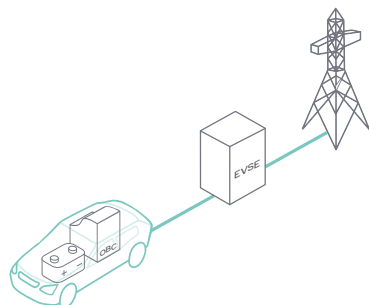
The hardware platform is built on a Back-to-Back power conversion topology, based on SiC MOSFETs transistors. The grid side stage is an Active Rectifier which produces clean sinusoidal currents with very low harmonic distortion and power factor close to one.

The EUT side output can be configured for AC voltage source, AC current source or DC source/sink. In AC, voltage or current is controlled by using state of the art digital Proportional Resonant controllers. In DC, the three independent buck-boost bidirectional legs enable the separated control of three DC voltages or currents.

Applications

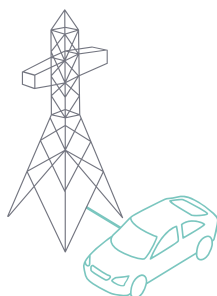
Electromobility

EVSE and OBC



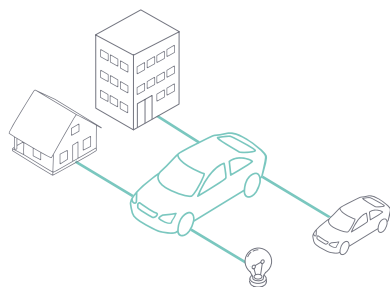
Electric Vehicle Supply Equipment is designed to charge the battery of EV in AC or DC. In AC applications the On Board Charger converts AC in DC.

Vehicle to grid (V2G)



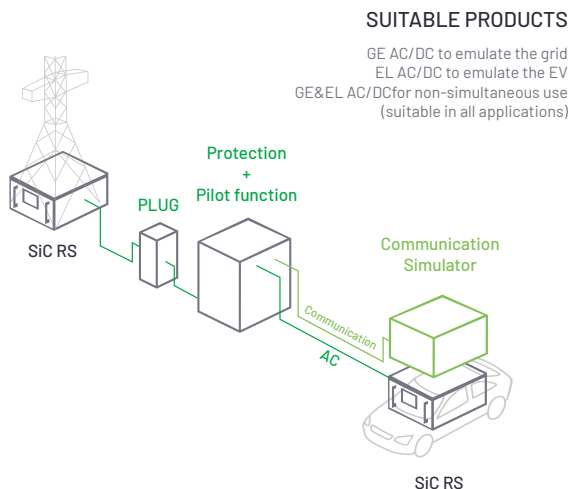
V2G is a system where EVs interact with the power grid, allowing bidirectional energy transfer between them to balance demand and supply

Vehicle to Everything (V2X)



The integration of EV to the grid creates new applications as vehicle to home/building, vehicle to load, vehicle to vehicle, etc... included in V2X

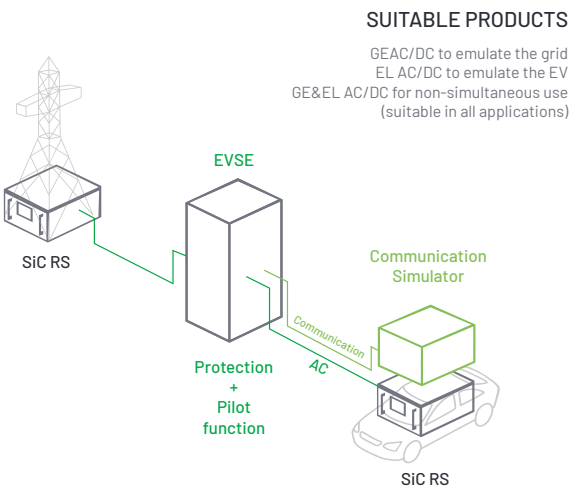
EVSE MODE 2 TEST PLATFORM FOR TYPE 2 CHARGING CABLES



SUITABLE PRODUCTS

GE AC/DC to emulate the grid
EL AC/DC to emulate the EV
GE&EL AC/DC for non-simultaneous use
(suitable in all applications)

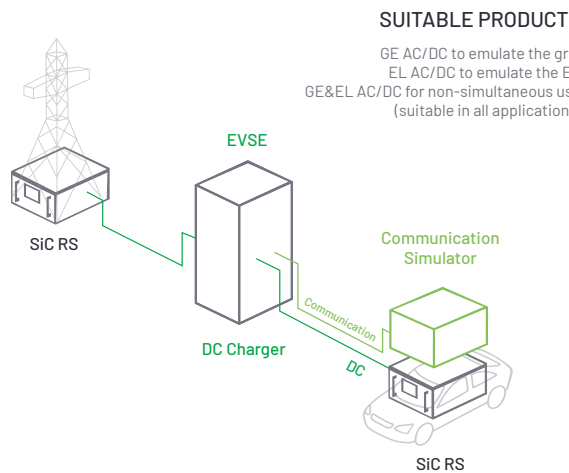
EVSE MODE 3 TEST PLATFORM FOR WALL CHARGERS



SUITABLE PRODUCTS

GEAC/DC to emulate the grid
EL AC/DC to emulate the EV
GE&EL AC/DC for non-simultaneous use
(suitable in all applications)

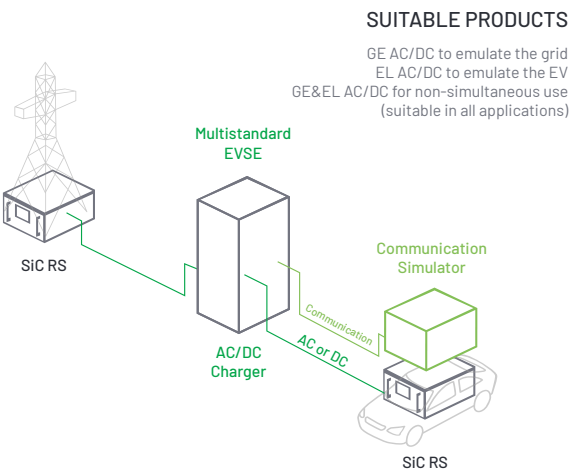
EVSE MODE 4 TEST PLATFORM FOR DC CHARGERS



SUITABLE PRODUCTS

GE AC/DC to emulate the grid
EL AC/DC to emulate the EV
GE&EL AC/DC for non-simultaneous use
(suitable in all applications)

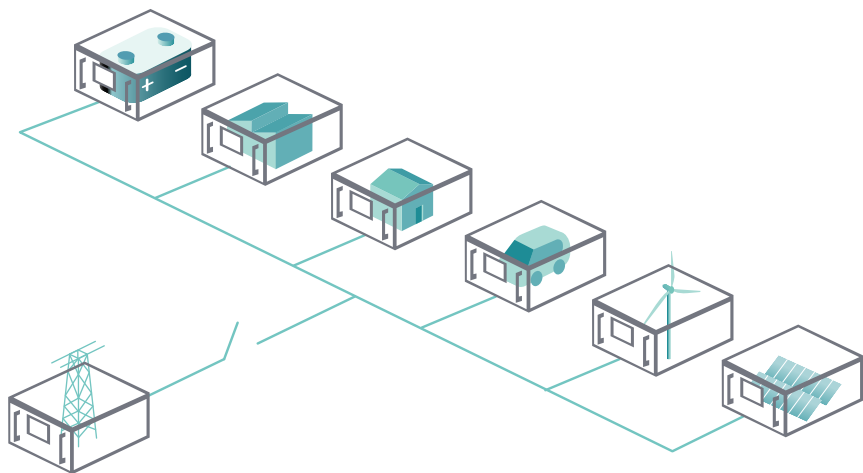
MULTISTANDARD EVSE



SUITABLE PRODUCTS

GE AC/DC to emulate the grid
EL AC/DC to emulate the EV
GE&EL AC/DC for non-simultaneous use
(suitable in all applications)

Smart Grids



Smart grids require power electronics and ICT (Information and Communication Technology) to manage energy flows and ensure the quality and continuity of the electric supply.

Our units can emulate the electrical behaviour of a variety of elements connected to a Smart Grid or Microgrid: the utility grid itself, distributed energy resources (Photovoltaic, Wind Plants...), loads (houses, buildings) or bidirectional devices such as ESS or smart EV chargers.

SUITABLE PRODUCTS

GE AC/DC for voltage or DC
EL AC/DC for current or DC
GE&EL AC/DC for non-simultaneous use
(suitable in all applications)

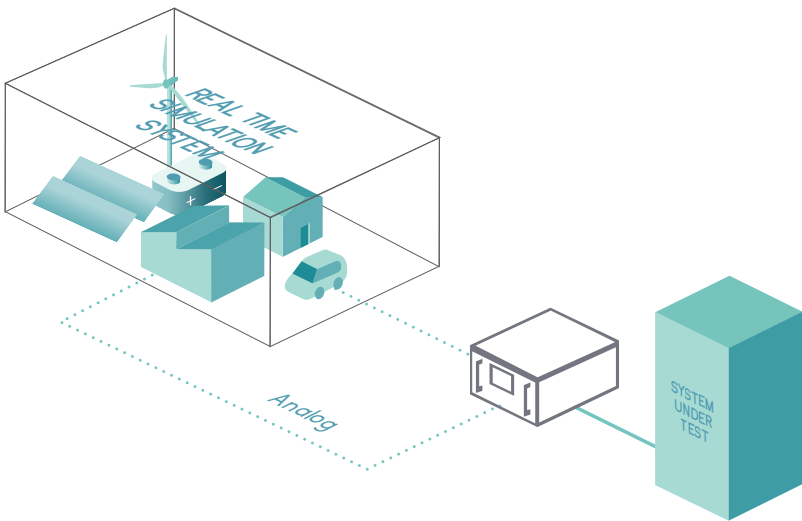
PHiL

Real Time Simulation Systems and Power Converters are converging in the field known as Power Hardware in the Loop (PHiL) in which a real world system is simulated on a real-time basis and then emulated: converted in real voltage, current and power.

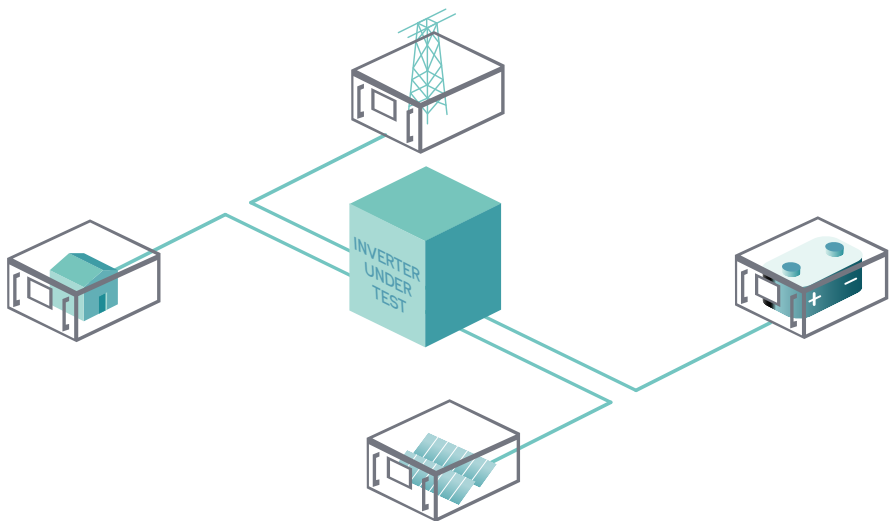
The Rack Series can be used in Power Amplifier mode, which transforms the reference signal generated by the real time simulator into a voltage or current waveform.

SUITABLE PRODUCTS

GE AC/DC for voltage or DC
EL AC/DC for current or DC
GE&EL AC/DC for non-simultaneous use
(suitable in all applications)



Renewables & ESS



Energy storage systems (ESS) typically involve three components:
(1) an electrical grid for importing and exporting energy
(2) a DC storage system
(3) loads or a microgrid that integrates both generation and consumption.

With our extensive experience in this field, we provide comprehensive testing solutions for these systems.

SUITABLE PRODUCTS

GE AC/DC for voltage or DC
EL AC/DC for current or DC
GE&EL AC/DC for non-simultaneous use
(suitable in all applications)

User Interface



Designed by Engineers for Engineers

CINEINA is the software user interface supplied with every CINERGIA device, fully developed by our R&D team to provide full control over the unit.

Its intuitive and user-friendly design allows to effortlessly use the device’s multiple functionalities, ensuring a minimal learning curve for both new and experienced users.



Features



Supervision

The Supervision tab offers comprehensive oversight of the unit’s operation. All data is logged and graphed to monitor performance and ensure optimal functionality.

The Supervision window can be undock into a different screen for better overall control.



Plots

Record and track the unit’s operation during testing with the Plots tab. This function is embedded in the unit and does not require any external devices or an internet connecton.

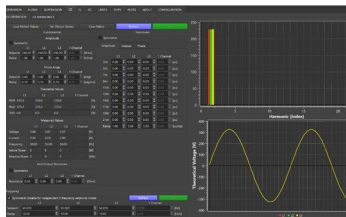
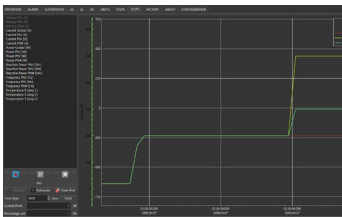
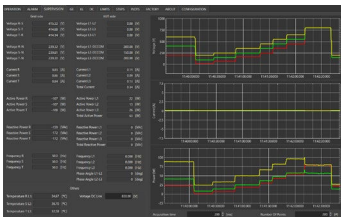
All activity data is saved in convenient .csv files, ready for immediate plotting or download for later in-depth analysis.



1 Channel Mode

As a grid simulator, the device can be controlled in 1 Channel mode where the 3 output phases are internally short-circuited, in order to be suitable for single-phase applications.

Contact us for power derating in AC 1 Channel Mode. No power derating in AC 3 Channel or DC.



AC



AC Operation

Each phase can be independently configured: RMS current, frequency, phase delay, harmonics distortion, as well as the ramps associated with each mentioned variable. The expected waveform is plotted, the FFT is represented and the numeric data shown: RMS, peak, CF and THD.



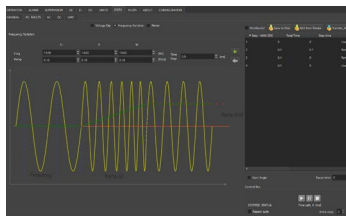
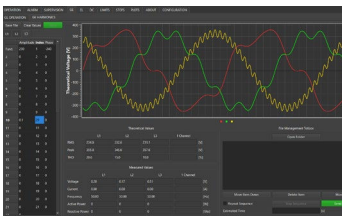
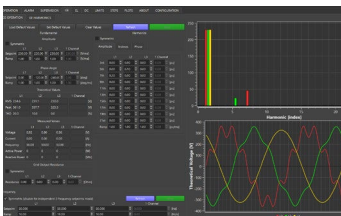
Harmonics

The CINEINA software allows the generation of sub-harmonics, interharmonics and high frequency harmonics up to the 50th, setting both magnitude and phase delay. Harmonic sequences can be saved and loaded as .csv files to ease testing standarization.



Disturbance Generation

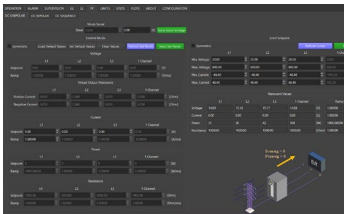
The AC fault panel is a powerful yet intuitive editor which allows generation of distorted waveforms: flicker, voltage dip, frequency and voltage variations... Specific profiles can be saved in .csv files, modified and reused by importing an existing one.



DC

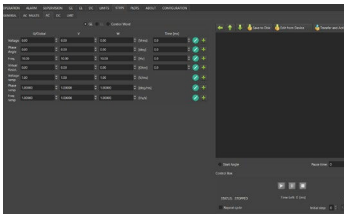
DC Operation

The DC Unipolar/Bipolar panel is where the setpoints and limits are defined. Each of the 3 channels can work simultaneously in a different Operation Mode: Voltage, Current, Power, Resistance, Battery Test, Emulation, PV Emulation... Transition ramps, voltage and current limits can be adjusted individually to ensure safe testing, particularly in battery applications.



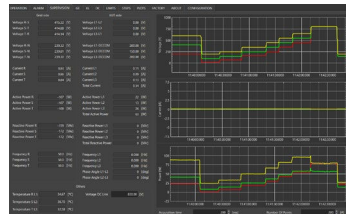
Sequence

CINEINA includes a Test Editor with the purpose of designing and/or importing automated sequence tests, which can later be exported as .csv files. A smart datalogger can be set to automatically save voltage, current and power measurements with a 400ms time resolution.



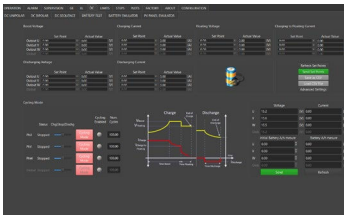
Multichannel

Enabling the Separated Channel Control converts the device in three functionally independent DC Bidirectional Power Supplies, sharing the common negative rail. Each channel can have a different status (ON, OFF, Warning, Alarm), Operation Mode (see Range and Specifications table), Setpoint, Ramp and Limits.



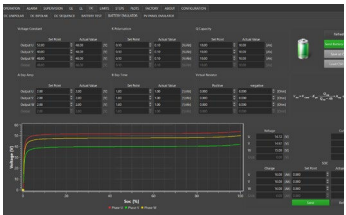
Battery Pack Tester

An integrated software designed for testing charge/discharge battery cycles. Thanks to the Multichannel, 3 batteries or battery packs can be tested simultaneously. Test parameters such as charge/discharge current, float, boost voltage, number of cycles... can be adjusted for monthslong tests.



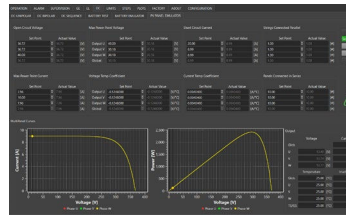
Battery Emulation

The unit incorporates a mathematical model in order to emulate the behaviour of real batteries or battery packs. Defining the characteristic parameters enables the simulation of different battery technologies (Lilon, NiMH, NiCd, Pb...). All within one unit!



PV Panel Emulation

Based on a single-diode equivalent circuit, the PV Emulation mode allows the virtual simulation of solar arrays. The PV Panel characteristic parameters, string configuration, irradiance and temperature values can be defined or exported from a .csv file for flexible testing.



Range & Specifications

Input side (GRID side)

- AC Voltage**
Rated: 3x400 Vrms +Neutral+ Earth (5 wires)
Optional 3x480 Vrms (4 or 5 wires)*
Range: +15% / -10%
- Rated AC Current**
< 48 A/phase (@rated conditions)
- Frequency**
47-63 Hz
- Current Harmonic Distortion**
THDi <2% at rated power
- Power Factor**
PF>0.98 at rated power
- Efficiency**
>93,5% (@rated conditions)

*This option will add the IT-RS transformer.

Output side GE AC (EUT side)

- Terminals**
Number: 4 (3 phases + neutral)
- Configuration of Channels**
3 Channel: 4 Quadrants, independent setpoints per phase
1 Channel: 4 Quadrants, single setpoint (with power derating)
Multichannel: 4 Quadrants, independent start/stop/reset, alarm status, ramps and setpoints per phase
- Voltage Mode (CV)**
Peak: ± 420 V phase-neutral
Range: 0⁽¹⁾ to 295 Vrms phase-neutral
0⁽¹⁾ to 510 Vrms phase-phase
THDv: < 0.2% rated linear load at 230 Vrms (40 Hz to 100 Hz)
Setpoint Resolution: 10 mVrms
Effective Resolution⁽²⁾: < 0.05% of FS⁽³⁾
Setpoint Accuracy⁽⁴⁾: < $\pm 0.1\%$ of FS⁽³⁾
Transient Time⁽⁵⁾: < 100 μ s (10% to 90% of 230 Vrms)
Slew Rate: Configurable, Max 2,5 V/ μ s
Ripple : ≤ 0.5 Vrms (with probe bandwidth <250 kHz)
- Harmonics Range**
Range: up to 5 kHz (up to 50th harmonic)
50 independent harmonics per phase:
21 free programmable frequency and phase from 0.1 to 50 times fo
29 fixed frequency
Harmonics content: $V\text{-}f < 180000$ V·Hz
- Frequency**
Fundamental Frequency Range: 10 to 400 Hz
Small Signal Bandwidth: up to 5000 Hz
Resolution: 1 mHz
- Phase Angle**
Range: 0 to 360 °
Resolution: 0.01 °

Output side in EL-AC

Admissible Voltage

Connection: 1-phase, 3-phase star or 3-phase delta
Maximum: $\pm 400\text{V}$ peak (420V with HV option)
Range: 10-400Hz
35 to 277Vrms phase-neutral (295Vrms with HV option)
35 to 480Vrms phase-phase (510Vrms with HV option)
Maximum rms voltage follows $V \cdot f < 180000$

Current Mode (CC)

Range: from 0 to $\pm 130\%$ ⁽⁸⁾ of I_{rated}
Setpoint Resolution: 10mA_{rms}
Effective Resolution⁽²⁾: $< 0.05\%$ of FS⁽³⁾
Setpoint Accuracy⁽⁴⁾: $< \pm 0.2\%$ of FS⁽³⁾
Transient Time⁽⁵⁾: [$< 100\ \mu\text{s}$ (10% at 90%)]
Slew Rate: 1 A/ μs

Phase Angle (cos ϕ)

Range: -90 to 90° in Sink / Source
Resolution: 0.01°

Harmonics

Range: up to 5kHz (up to 50th harmonic)
50 independent harmonics per phase:
21 free programmable frequency and phase from 0.1 to 50 times f_0
29 fixed frequency

Power Mode (CP / CS)

Range: from 0 to $\pm 130\%$ ⁽⁸⁾
The current setpoint is derived from ISI and $<S$
Setpoint Resolution: 1W, 1VA
Effective Resolution⁽²⁾: $< 0.1\%$ of FS⁽³⁾
Setpoint Accuracy⁽⁴⁾: $\pm 0.4\%$ of FS⁽³⁾
Transient Time⁽⁵⁾: [$< 100\ \mu\text{s}$ (10% at 90%)]

Impedance Mode (CZ)

Calculation method configurable (rms, instantaneous)
Range: from 0.8 to 1000 Ohm, 0.1 to 2000mH, 0 to 3.7mF
Current setpoint derived from $|Z|$ and $<Z$
Setpoint Resolution: 0.01 Ohm/mH/mF
Setpoint Accuracy⁽⁴⁾: see current accuracy
Transient Time⁽⁵⁾: [$< 100\ \mu\text{s}$ (10% at 90%)]

Output side in DC (EUT side)

Terminals

Number: 6 (3 positive + 3 negative)

Configuration of Channels

Unipolar:
3 Channels: 2 Quadrants, independent setpoints per channel
1 Channel: 2 Quadrants, single setpoint
Bipolar: 4 Quadrants, two independent setpoints
Multichannel: 2Q, independent start/stop/reset, operation mode and setpoints per channel

Voltage Mode (CV)

Range: 2 Quadrants: 0⁽¹⁾ to 800 V (Unipolar configuration)
4 Quadrants: ± 380 V to ± 380 V (+ rail / 0 / - rail, Bipolar configuration)
Setpoint Resolution: 10 mV
Effective Resolution⁽²⁾: < 0.05% of FS⁽³⁾
Setpoint Accuracy⁽⁴⁾: ± 0.1% of FS⁽³⁾
Transient Time⁽⁵⁾: < 250 µs (10% to 90% of Vrated)
Ripple⁽⁷⁾: < 2 Vpp (with probe bandwidth <250 kHz)

Current Mode (CC)

Range: from 0 to ± 110% of Irated
Setpoint Resolution: 10 mA
Effective Resolution⁽²⁾: < 0.05% of FS⁽³⁾
Setpoint Accuracy⁽⁴⁾: ± 0.2% of FS⁽³⁾

Power Mode (CP)

Range: from 0 to ± 110%⁽⁸⁾ of Prated
Derived current setpoint: Psetpoint / Vmeasured
Setpoint Resolution: 1 W
Effective Resolution⁽²⁾: < 0.1% of FS⁽³⁾
Setpoint Accuracy⁽⁴⁾: ± 0.4% of FS⁽³⁾

Resistance Mode (CR)

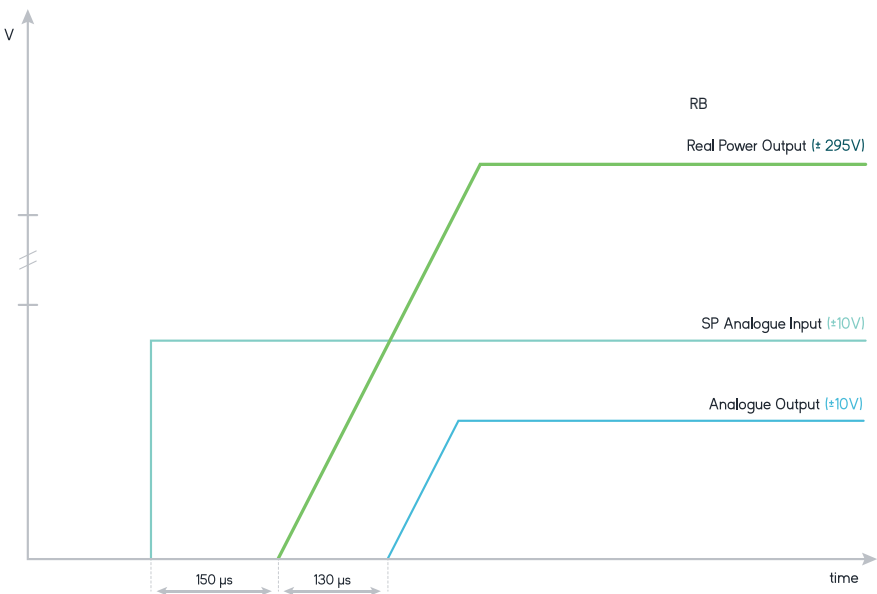
Range: from 0.1 to 1000 Ohm
Derived current: Vmeasured / Rsetpoint
Setpoint Resolution: 0.01 Ohm
Setpoint Accuracy⁽⁴⁾: ± 0.2% of FS⁽³⁾

Overload/ Overcurrent	Admissible AC overcurrent and overload: 115% of rated value during 10 minutes, 120% during 1 minute, 130% during 2 seconds
	Admissible DC overcurrent and overload: 110% during 1 minute

Operation Modes	AC Programmable Voltage (CV)(only in GE Mode) Programmable Current (CC)(only in EL Mode) Programmable Power (CP / CS)(only in EL+) Programmable Impedance (CZ)(only in EL+) Steps
	DC Programmable Constant Voltage (CV) Programmable Constant Current (CC) Programmable Constant Power (CP) Programmable Constant Resistance (CR) Steps Optional Battery Testing (BTest)(charge/discharge/cycling) Optional Battery Emulation (Bemu) Optional PV Panel Emulation (PVEmu)

Power Hardware In the Loop

Power Amplifier (PHiL)
AC or DC Power Amplifier
Delay Analog Input to Real Power Output: 150 μ s
Delay Real Power Output to Analog Output Signal: 130 μ s
* Delay time calculated working in AC configuration.



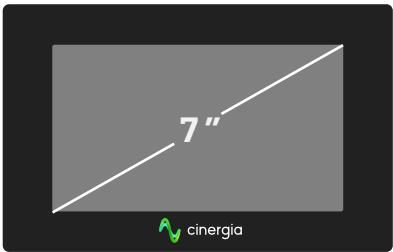
User Interface

Local Control
7" Touchscreen panel
Isolated Digital I/O (DB15):
6 inputs, 4 outputs
Isolated Analog I/O (BNC):
6 inputs (rms setpoints or power amplifier),
6 outputs (rms readback or real-time readback)
Emergency Stop port: 1 NC Input

Remote Control Port
LAN Ethernet with Open Modbus-TCP protocol

Software
Graphical User Interface for Windows 7/10/11
LabView drivers and open Labview interface example

Master/Slave Operation
Connection: fiber optics link (x6)
Configuration: from software user interface/MODBUS up to 8 units:
AC: Parallel
DC: Parallel, serial or serial-parallel



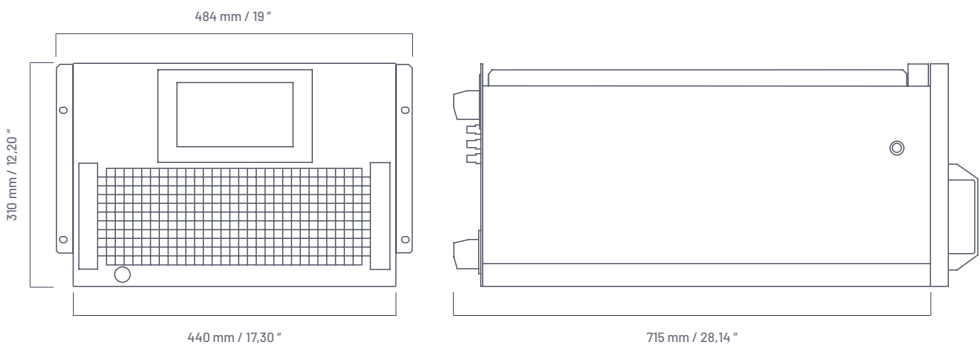
Size and Weight

Height
7U (310 mm)
12,20"

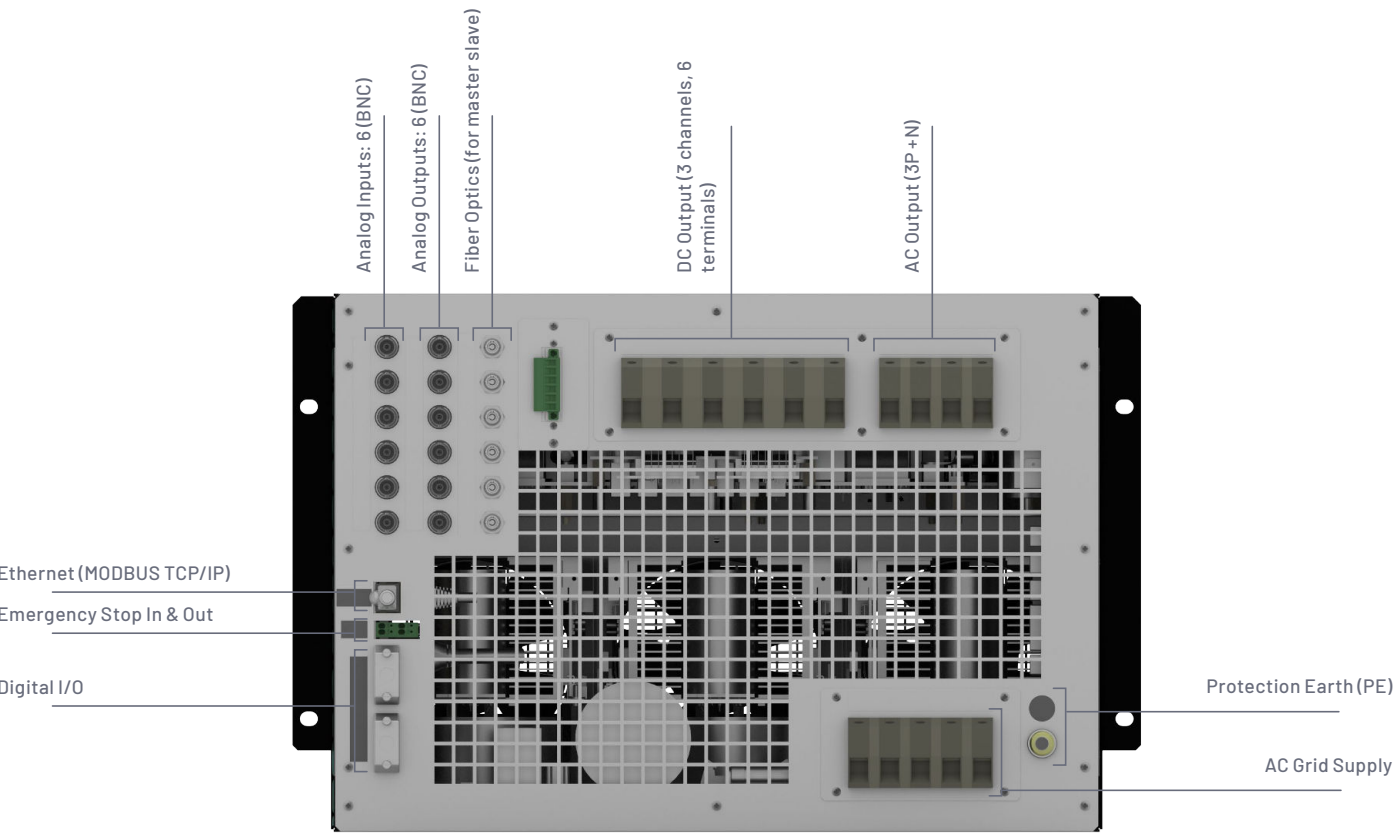
Width
440 mm
17,30"

Depth
715 mm
28,14"

Weight
50 kg
110.23 lbs



Connections



Protections

Overvoltage (peak, rms), Overcurrent (peak, rms), Overload, Shortcircuit, Emergency Stop, Watchdog, Heart Beat, Output Contactor, Wrong Configuration

Alarms and Limits are user configurable and can be saved in a password protected EEPROM

Mesurements ⁽⁶⁾	GRID: Voltage (rms), Current (rms), Active and Reactive Power (P,Q) and Frequency
	EUT: Voltage (rms), Current (rms), Active and Reactive Power (P,Q), Frequency and Phase Angle
	Heatsink Temperatures and DC Link Voltage
	Datalogging available through FTP connection

Ambient	Operating temperature ⁽⁸⁾ : 5-40°C
	Relative Humidity: up to 95%, non-condensing
	Cooling: Forced air
	Acoustic noise at 1m: <55 dB

Standards	CE Marking
	Operation and Safety: IEC 61010-1
	EMC: EN-61326-1
	RoHS, REACH

All specifications are subject to change without notice.

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- | | |
|---|--|
| 1. Working at low voltages is possible but ripple requirements must be checked, specially in DC | 6. Accuracy of measurements is ±0.1% of FS for rms voltage, ±0.2% of FS for rms current, ±0.4% of FS for active power (valid only above 10% of FS) |
| 2. Effective resolution measured with a 400 ms window | 7. Measured at 400 V under resistive load |
| 3. FS is defined by the range of the unit, including overcurrent and overload when applicable | 8. Rated power figures are given at 25 °C, power derating applies at higher temperature |
| 4. Accuracies are valid for settings above 10% of FS | 9. The maximum output voltage depends on frequency following V·f < 180000 V·Hz |
| 5. Measured with the rated resistive load and high-dynamics controllers configuration. Adjustment of controllers may be necessary to reduce oscillations in some applications, e.g high capacitance | |

GE&EL AC/DC SiC-RS

Reference	AC Power 3phase* Rated	AC Current Rated RMS Per channel	DC Power Rated	DC Current Rated Per channel	Weight (kg) (lbs)	Dimensions DxWxH (mm) (inch)
GE&EL 22.5 AC/DC SiC-RS	22.5 kVA/kW	44 Arms	22.5 kW	±44A	50 kg 110.23 lbs	715 x 440 x 310 mm (7U) 28,14 x 17.32 x 12.20 "
GE&EL 30 AC/DC SiC-RS	30 kVA/kW	44 Arms	30 kW	±44A	50 kg 110.23 lbs	715 x 440 x 310 mm (7U) 28,14 x 17.32 x 12.20 "

(*) Consult us for derating in AC 1 Channel mode, derating applies

Isolation Transformer RS

Reference	AC Power 3phase Rated	Weight (kg) (lbs)	Dimensions DxWxH (mm) (inch)
IT30-RS**	34 kVA/kW	180 kg 396.83 lbs	710 x 440 x 210mm (5U) 27.95 x 17.32 x 8.28 "

(**) Transformers with Star-Star (Y-Y) or Delta-Star (Δ-Y) configuration are available.

All specifications are subject to change without notice.

Channel Configuration in GE&EL

3 Channels

1 Channel

Channel Configuration in DC

3 Channels

1 Channel

Unipolar

Unipolar

Bipolar

Configuration Modes

GE&EL AC

PHiL AC

DC

PHiL DC

Master / Slave

Parallel

in AC mode

Parallel

Serial

Serial Parallel

in DC mode

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