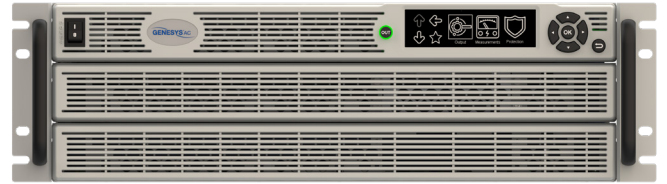


6kVA and 9kVA AC Programmable Power Sources



Compact and easy to use, the Genesys AC programmable 3U AC Power Sources offer 6 and 9kVA in single, split, or three-phase user controlled configurations. Offering a wide, 0-350Vac single range output in all models and up to 606 Vac L-L in three phase configurations. The GAC-PRO models additionally include $\pm 500\text{Vdc}$ capability, allowing AC, DC and AC+DC operation. Multiple remote programming interfaces built-in; LAN, USB, RS232 & RS485, with remote GUI, webpage, LabView and SCPI drivers included. Isolated analogue interfaces allow analog control and, analog output for monitoring, as well as a number of in/out triggers and relays. The GENESYS™ AC PRO models include real time analog control functionality necessary for more complex test scenarios such as PHIL. The Genesys AC series has a full colour LCD, multi-language, touch panel display for ease of use with intuitive menus, settings and data displays.

| Features | Benefits |
|---------------------------------------------------------------|------------------------------------------------------------|
| • 3U high | • Less Rack Space Used |
| • Full Colour Touch Panel Display | • Easy to Read and Program |
| • Built-in USB, LAN, RS-232 & RS-485 (plus others) Interfaces | • No Additional Cost |
| • Parallelable to 27kVA single and multi-phase | • Scalable for Larger Systems and Multiple Phase Operation |
| • Five Year Warranty | • Low Cost of Ownership |

| GAC-PRO | | - | 03 | B | A | 1 | | A | - | 00 | A | 00 | A |
|-----------------------|--|---|----|-------------------------------|---|-------------------------------------|--|-------------------------------------------------------------|---|----|---|--------------------|---|
| Series Name | | | | Front Panel Type/Color | | Communication Interface | | Frequency Limit | | | | Accessories | |
| GAC | | | | A - Full Panel (Grey) | | 1 - Built-in RS232, RS485, USB, LAN | | A - AC Mode, 1200Hz | | | | A - None | |
| GAC-PRO | | | | B - Full Panel (Black) | | | | B - AC + DC Mode, 1200Hz* | | | | | |
| | | | | C - Blank Panel (Grey) | | | | C - AC + DC Mode, 5000Hz* | | | | Additional Options | |
| | | | | D - Blank Panel (Black) | | | | | | | | 00 - None | |
| Apparent Output Power | | | | Input Voltage | | | | Avionic Standards *(GAC-PRO Only) | | | | | |
| 02 = 2kVA | | | | A - 85-265Vac single phase ** | | | | 00 - None | | | | | |
| 03 = 3kVA | | | | B - 170-265Vac 3-phase | | | | 01 - RTCA/DO 160 | | | | | |
| 06 = 6kVA | | | | C - 342-528Vac 3-phase | | | | 02 - MIL-STD 704 | | | | | |
| 09 = 9kVA | | | | ** 2kVA, 3kVA only | | | | 03 - A350 (Airbus ABD100.1.8.1) | | | | | |
| | | | | | | | | 04 - RTCA/DO 160 & MIL-STD 704 | | | | | |
| | | | | | | | | 05 - RTCA/DO 160 & A350 (Airbus ABD100.1.8.1) | | | | | |
| | | | | | | | | 06 - MIL-STD 704 & A350 (Airbus ABD100.1.8.1) | | | | | |
| | | | | | | | | 07 - RTCA/DO 160 & MIL-STD 704 & A350 (Airbus ABD100.1.8.1) | | | | | |
| | | | | | | | | | | | | *(GAC-PRO Only) | |
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| Specification | | | | | |
|-----------------------------------------------|-----------------------------|----------------------------------------------------------------|------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model | | 6kVA 1200Hz 6kVA 5000Hz | | 9kVA 1200Hz 9kVA 5000Hz | Notes |
| AC Input | | | | | |
| Nominal Input Voltage | Vac | 3-Phase 200: 190 – 240 3-Phase 480: 380 – 480 | | | |
| Input Voltage Range | Vac | 3-Phase 200: 190 – 240 3-Phase 480: 380 – 480 | | | |
| Maximum Input Current | A | 3-Phase 200Vac: 22.4 at 200Vac 3-Phase 480Vac: 12 at 380Vac | | 3-Phase 200Vac: 33.6 at 200Vac 3-Phase 480Vac: 18 at 380Vac | |
| Input Frequency | Hz | Nominal: 50 – 60, Frequency range: 47 – 63 | | | |
| Power Factor | % | 3-Phase: 0.92 | | 3-Phase: 0.94 | Typical at rated output power, rated output current. DC mode or sine wave the load power factor is 1 |
| Efficiency | % | 3-Phase: 79 | | 3-Phase: 82.5 | Typical at rated output power, rated output current, DC mode or sine wave, load power factor is 1 3-Phase 200V models at 200Vac input, 3-Phase 480V at 380Vac input. |
| Hold Up Time (typ) | ms | ≥10 | | ≥10 | Typical at rated output power, rated output current. DC mode or sine wave the load power factor is 1 |
| Inrush Peak Current | A | <156 | | <156 | Not including the EMI filter inrush current, less than 0.2ms. |
| Programming | | | | | |
| AC Output Voltage | | | | | Combined with AC and DC output, the peak voltage must be between -500V to +500V |
| Rated RMS Output Voltage | V | 350 Line-Neutral | | | Minimum voltage is guaranteed to a maximum 0.1% of the rated output voltage (350Vac, 500Vdc) |
| Setting Range | V | 0 – 350.2 | | | Maximum RMS voltage setting range is associated with the output current setting. When the output current setting is above 5.714A per-phase & 17.4A for Paralleled for 6kVA, or 8.571A per-phase & 25.7A Parralled for 9kVA, the output voltage setting is limited to rated output power. |
| Programming Resolution | V | ≤0.02 | | | |
| Programming Accuracy | % | 16 – 1200Hz: ≤0.2, 1200.1 – 5000Hz: ≤0.4 | | | |
| AC Output Current | | | | | |
| Rated Output RMS current | One-Phase Three-Phase | A | 60 20 | 90 30 | |
| Peak Repetitive Current (Max Crest Factor) | Single-Phase Three-Phase | A peak (CF) | 360 (6:1) 120 (6:1) | 360 (4:1) 120 (4:1) | |
| Setting Range | One-Phase Three-Phase | A | 3 – 60.6 1 – 20.2 | 4.5 – 90.6 1.5 – 30.2 | Maximum RMS current setting range is associated with the output current setting. When the output current setting is above 4A per per channel for 6kW, 12A for Paralleled Channels, or 6Aper channel for 9kW, 18A for Paralleled, the output voltage setting is limited to rated output power. Refer to Figure 2 and Figure 4. |
| AC Output Power | | | | | |
| Rated Output Apparent Power | VA | 6000 | | 9000 | |
| Load Power Factor | - | 0 – 1 (leading or lagging) | | | |
| Frequency | | | | | |
| Range | Hz | Standard Models 16-1200, 5000Hz PRO models: 16 – 5000 | | | |
| Programming Resolution | Hz | 16 – 1200Hz: 0.01, 1200.1 – 5000Hz: 0.1 | | | |
| Programming Accuracy | % | ≤0.01 | | | |

| Specification | | | | | |
|--------------------------|------------------------------------------|----------------------------|----------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model | | 6kVA 1200Hz 6kVA 5000Hz | | 9kVA 1200Hz 9kVA 5000Hz | Notes |
| DC Output Voltage | | | | | |
| Rated Output DC Voltage | Vdc | ±500 | | | Minimum voltage is guaranteed to maximum 0.1% of rated output voltage (350Vac, 500Vdc) |
| DC Voltage Setting Range | Vdc | -500 to +500 | | | Maximum DC voltage setting range is associated with the output current setting. When the output current setting is above 4A per per channel for 6kW, 12A for Paralleled Channels, or 6Aper channel for 9kW, 18A for Paralleled , the output voltage setting is limited to rated output power. Refer to Figure 2 and Figure 4. |
| Programming Resolution | Vdc | ≤0.02 | | | |
| Programming Accuracy | % | ≤0.15 | | | |
| DC Output Current | | | | | |
| Rated Output Current | Separate Channels Paralleled Channels | Adc | 20 60 | 30 90 | Minimum current is guaranteed to maximum 0.2% of rated output current. |
| Setting Range | Separate Channels Paralleled Channels | Adc | 1 – 20.2 3 – 60.6 | 1.50 – 30.2 4.5 – 90.6 | Maximum DC current setting range is associated with the output voltage setting. When the output voltage setting is above 100VDC, the output current setting is limited to rated output power. |
| DC Output Power | | | | | |
| Rated Output Power | W | 6000 | | 9000 | |

| Specification | | | | | |
|---------------------------------|----------|-----------------------------------------------|--|----------------------------|----------------------------------------------------------|
| Model | | 6kVA 1200Hz 6kVA 5000Hz | | 9kVA 1200Hz 9kVA 5000Hz | Notes |
| Output Voltage | | | | | |
| AC Voltage Resolution | V | ≤0.02 | | | |
| AC Voltage Accuracy | % | 16 – 1200Hz: ≤0.2, 1200.1 – 5000Hz: ≤0.4 | | | |
| DC Voltage Resolution | Vdc | ≤0.02 | | | |
| DC Voltage Accuracy | % | ≤0.02 | | | |
| Output Current | | | | | |
| RMS Current Resolution | A | ≤0.005 | | | |
| RMS Current Accuracy | % | ≤1 | | ≤0.6 | |
| DC Current Resolution | Adc | ≤0.005 | | | |
| DC Current Accuracy | % | ≤1 | | ≤0.6 | |
| Peak Current Resolution | A (peak) | ≤0.005 | | | |
| Peak Current Accuracy | % | ≤1.5 | | | |
| Output Power | | | | | |
| Active (real) Power Resolution | W | ≤0.2 | | | |
| Active (real) Power Accuracy | % | AC: ≤2.25, DC: ≤4.5 | | AC: ≤1.5, DC: ≤3 | |
| Apparent Power Resolution | W | ≤0.2 | | | |
| Apparent Power Accuracy | % | ≤2.25 | | ≤1.5 | |
| Frequency | | | | | |
| Resolution | Hz | 16 – 1200Hz: 0.01, 1200.1 – 5000Hz: 0.1 | | | |
| Accuracy | % | ≤0.1 | | | Accuracy is guaranteed above 5% of rated output voltage. |
| Harmonics Measurement | | | | | |
| Fundamental Frequency | Hz | 16 – 1000 | | | |
| Harmonic Frequency / Harmonic # | Hz | 32 – 50000 / 2 – 50 | | | |
| Measurement Items | - | RMS Voltage, RMS current, phase angle and THD | | | |

| Specification | | | | |
|------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model | | 6kVA 1200Hz 6kVA 5000Hz | 9kVA 1200Hz 9kVA 5000Hz | Notes |
| Stability | | | | |
| Line Regulation | % | ≤0.02 | | Load power factor is 1. Load power factor is 1. |
| Load Regulation | % | ≤0.03 | | |
| Total Harmonic Distortion (THD) | % | 16 – 500: ≤0.4, 500 – 1200: ≤0.7, 1200 – 5000: ≤1 | | |
| Temperature Coefficient | ppm/°C | 50 | | ppm/°C of rated output voltage, following 30 minutes warm-up. |
| Temperature Stability (voltage) | % | ±0.05 of FS over 8 hours. Constant line, load, and temperature. Remote sense connected | | |
| Warm-up Drift (voltage) | % | Less than 0.05% of rated output voltage over 30 minutes following power on | | |
| Supplemental | | | | |
| Crest Factor / Maximum peak current | - | 6:1 (6 times the rated RMS output current) / 120A | 4:1 (4 times the rated RMS output current) / 120A | Time for output voltage to recover within 0.5% of its rated output for a load change 10~90% of rated output current. Output set point: 10 – 100%, local sense, load power factor is 1. At 10% to 90% of the output voltage. |
| Ripple RMS | mVdc | ≤500 | | |
| Transient Response Time | μs | ≤40 | | |
| Response Speed T(rise), T(fall) | μs | 1200Hz models: ≤120; 5000Hz models: ≤40 | | |
| Voltage Slew Rate (typical) | V/μs | 1200Hz models: 4.4; 5000Hz models: 16.34 | | |
| DC Offset Voltage (typical) | mVdc | ≤35 | | |
| Remote Sense Compensation | - | AC, AC+DC mode: 35Vrms, 50V (peak); DC Mode: 35Vdc | | |
| Start-up Delay | seconds | <7 | | |
| Parallel Operation | - | Possible with GAC/P kit. Form 3-phase system or increase 1-phase output power | | |
| Environmental | | | | |
| Operating Temperature | °C / °F | 0 – 40 / 32 – 104 | | |
| Storage Temperature | °C / °F | -30 – 85 / -22 – 185 | | |
| Operating Environment | - | Overvoltage category II, Indoor use | | |
| Operating Humidity | % | 20 – 90 RH (no condensation) | | |
| Storage Humidity | % | 10 – 95 RH (no condensation) | | |
| Altitude | m / feet | Operating: 2000 / 6562, Non-operating: 12000 / 39370 | | |
| Protective Functions | | | | |
| Foldback Protection | - | Output shutdown when power source changes mode from CV to CC mode or from CC to CV mode. User presetable | | |
| Output Overvoltage Protection (OVP) | - | Output shutdown when overvoltage is sensed on the output. Programming range: 110%. Accuracy: ≤0.5% | | |
| Output Overvoltage Protection (OVP) Type | - | RMS – Shutdown when RMS voltage exceeds OVP RMS setting. Peak – shut-down when peak voltage exceeds OVP Peak setting | | |
| Overtemperature Protection (OTP) | - | Output shutdown when ambient temperature sensor or internal temperature sensors thresholds are exceeded | | |
| Overcurrent Protection (OCP) | - | Output shutdown when peak overcurrent is sensed on the output. Programming range: Up to 120A. | | |
| AC Input Protection | - | Fuse on each phase, two fuses in 1-Phase input, three fuses in 3-Phase input. Not user accessible | | |
| Output Undervoltage Limit (UVL) | - | Prevents adjusting output voltage below limit | | |
| Output Undervoltage Protection (UVP) | - | Output shutdown when undervoltage is sensed on the output | | |
| Remote Control Interfaces (isolated from the output) | | | | |
| USB | - | 2.0, Full Speed, Virtual COM Port, Type B high retention connector | | |
| RS232 | - | Up to 921.6kbps with optional handshake (RTS/CTS), DB9 connector | | |
| RS485 | - | Up to 921.6kbps, full duplex (4-wire), DB9 connector (shared with RS232) | | |
| LAN | - | 10/100Mbps, Auto-MDIX, Auto-Negotiation, built-in web server | | |

| Specification | | | | |
|--------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| Model | | 6kVA 1200Hz 6kVA 5000Hz | 9kVA 1200Hz 9kVA 5000Hz | Notes |
| Signals and Controls (isolated from the output) | | | | |
| Constant Voltage / Constant Current Monitor | - | Open collector. CC mode: On (0 – 0.6V). CV mode: Off. Maximum voltage: 30V. Maximum sink current: 10mA | | |
| Power Supply OK #2 Monitor | - | Push pull. Output on: 4.5 – 5.5V. Output off: 0 – 0.6V. Maximum source / sink current: 10mA | | |
| Power Supply OK #1 Monitor | - | Open collector. Output on: On (0 – 0.6V). Output off: Off. Maximum voltage: 30V. Maximum sink current: 10mA | | |
| Trigger In Signals | - | Maximum low level input voltage: 0.8V. Minimum high level input voltage: 2.5V. Maximum high level input: 5V Positive edge trigger width: 10us minimum. Maximum Tr,Tf: 1us. Minimum delay between 2 pulses: 1ms | | |
| Trigger Out Signals | - | Maximum low level output voltage: 0.6V. Minimum high level output voltage: 4.5V. Maximum high level output voltage: 5V Maximum source / sink current: 10mA. Minimum pulse width:100us | | |
| Local / Remote Analog Programming Monitor | - | Open collector. Remote: On (0 – 0.6V). Local: Off. Maximum Voltage: 30V. Maximum sink current: 10mA | | |
| Local / Remote Analog Programming Enable | - | Enable / Disable analog programming control by electrical signal or dry contact. Remote: On (0 – 0.6V) or short. Local: Off (2 – 30V) or open | | |
| Enable / Disable (ENA) Power Source Output | - | Enable / Disable power source output by electrical signal or dry contact. Voltage levels: 0 – 0.6V or short, 2 – 30V or open User selectable output on / off logic | | |
| Interlock (ILC) Inhibit Power Source Output | - | Enable / Disable power source output by electrical signal or dry contact. Output on: 0 – 0.6V or short. Output OFF: 2 – 30V or open | | |
| Programmed Signals | - | Two open drain programmable signals. Maximum voltage: 25V. Maximum sink current: 100mA | | |
| AC Input Voltage OK Monitor | - | Open collector. AC input voltage OK: 0 – 0.6V. AC input voltage not OK: Off. Maximum voltage: 30V. Maximum sink current: 10mA | | |
| Alarm (Fault) Monitor | - | Open collector. No faults: 0 – 0.6V. power source fault: Off. Maximum voltage: 30V. Maximum sink current: 10mA | | |
| Emergency Power Off (EPO) | - | Enable / Disable power source output by electrical signal or dry contact. Output on: 0 – 0.6V or short. Output OFF: 2 – 30V or open | | |
| Analog programming and monitoring (isolated from the output) | | | | |
| Output Voltage Programming | - | Full mode range: ±0 – 10V. RMS mode range: 0 – 10V. User selectable range: ±2.5 – 10V. Accuracy: 0.3% | | RMS mode, programming and monitoring. |
| Output Voltage Monitoring | - | Full mode range: ±0 – 10V. RMS mode range: 0 – 10V. User selectable range: ±2.5 – 10V. Accuracy: 0.4% | | RMS mode, programming and monitoring. |
| Output Current Monitoring | - | Full mode range: ±0 – 10V. RMS mode range: 0 – 10V. User selectable range: ±2.5 – 10V. Accuracy: 2kVA - ≤1.3%; 3kVA - ≤0.9% | | RMS mode, programming and monitoring. |

| Specification | | | |
|------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Model | 6kVA 1200Hz 6kVA 5000Hz | 9kVA 1200Hz 9kVA 5000Hz | Notes |
| Software / Firmware Test Sequences | | | |
| RTCA/DO 160 | - | Environmental conditions and test procedures for airborne equipment | Available in Genesys AC Pro (must be acquired) |
| MIL-STD 704 | - | Aircraft electric power characteristics | |
| A350 (Airbus ABD100.1.8.1) | - | Electric characteristics of A350 AC and DC equipment | |
| MIL-STD-1399-300 PART 1 | - | Low voltage electric power, alternating current | |
| IEC61000-4-11 | - | Voltage dips, short interruptions and voltage variations immunity | Available in Genesys AC and Genesys AC Pro (must be acquired) |
| IEC61000-4-13 | - | Harmonics and interharmonics including mains signalling at a.c. power port | |
| IEC61000-4-14 | - | Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase | Available in Genesys AC and Genesys AC Pro. Wave Generator & Harmonic Analysis must be acquired acquired in Genesys AC. |
| IEC61000-4-17 | - | Ripple on d.c. input power port immunity | |
| IEC61000-4-27 | - | Unbalance, immunity test for equipment with input current not exceeding 16 A per phase | |
| IEC61000-4-28 | - | Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase | |
| IEC61000-4-29 | - | Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests | |
| IEC61000-4-34 | - | Voltage dips, short interruptions and voltage variations immunity tests for equipment with mains current more than 16 A per phase | |

Output Characteristics

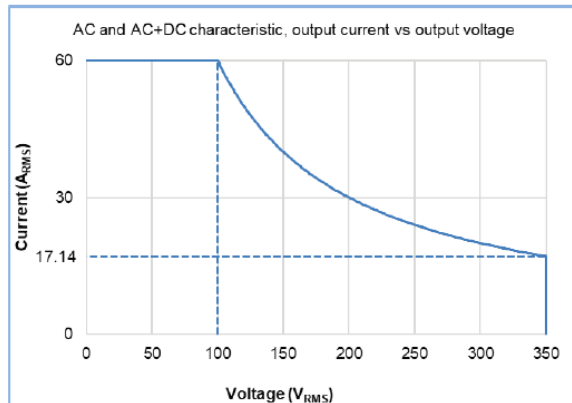


Figure 5: 6kVA AC and AC+DC characteristic

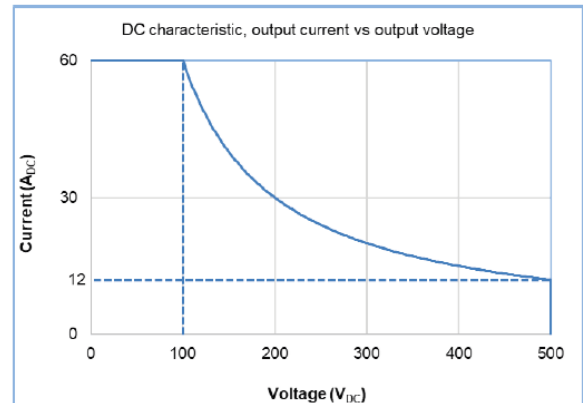


Figure 6: 6kW DC characteristic

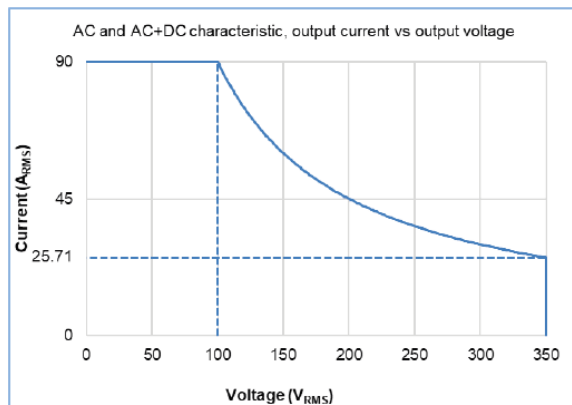


Figure 7: 9kVA AC and AC+DC characteristic (*28)

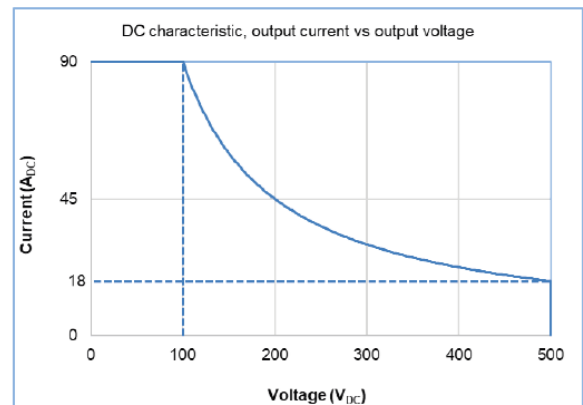


Figure 8: 9kW DC characteristic

Measurement

| Model | 6kVA 1200Hz 6kVA 5000Hz | 9kVA 1200Hz 9kVA 5000Hz | Notes |
|-------|----------------------------|----------------------------|-------|
|-------|----------------------------|----------------------------|-------|

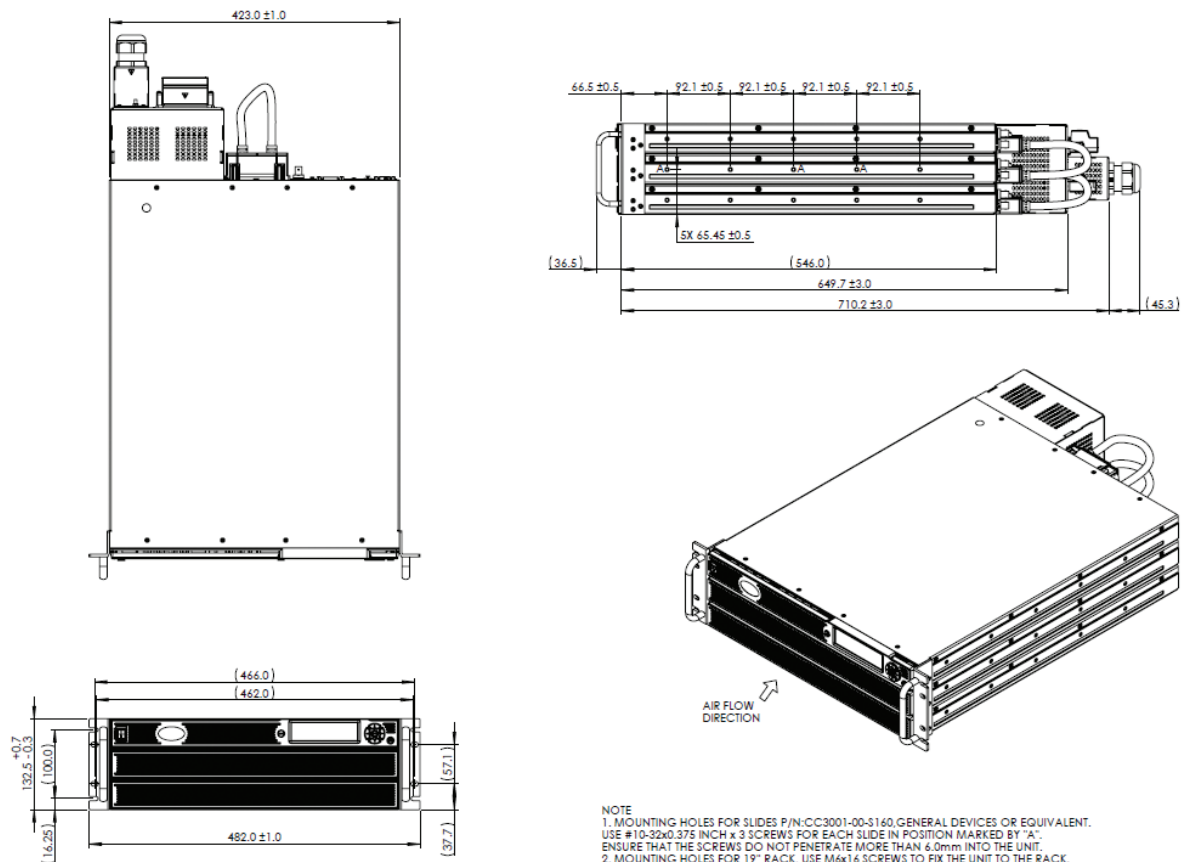
Mechanical

| | | | |
|--------------------------|----|------------------------------------------------------------------------------------------------------|--|
| Cooling | - | Forced air cooling by internal fans. Airflow direction: From front panel to power supply rear | |
| Weight | kg | ≤25 | |
| Dimensions | mm | Without strain relief: W: 423, H: 132.5, D: 649.7, With strain relief: W: 423, H: 132.5, D: 755.5 | |
| Vibration | - | MIL-PRF-28800F, Class 3; 5-500 Hz per Paragraph 4.5.5.3.1 | |
| Shock | - | MIL-PRF-28800F, Class 3; 30G half-sine with 11ms duration per 4.5.5.4.1 | |
| Transportation Integrity | - | ISTA 1A | |

Regulatory Compliance (safety / EMC)

| | | | |
|----------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Safety | - | IEC/UL/EN 61010-1 Ed. 3 (cTUVus, T-Mark, CE/UKCA) | Class I; Pollution Degree 2. |
| Interface Classification | - | Input, output (including sense), J9 and J10 are hazardous; J1, J2, J3, J4, J5, J6, J7 and J8 are non-hazardous | |
| Withstand Voltage | Vdc 1min | Input – Output (including sense), J1, J2, J3, J4, J5, J6, J7, J8, J9 and J10: 4000 Output (including sense), J9 and J10 – J1, J2, J3, J4, J5, J6, J7 and J8: 3850 Output (including sense), J9 and J10 – Ground: 3060 Input – Ground: 2835 | |
| Isolation resistance | MΩ | >100 at 25°C, 70%RH, output to ground 500Vdc | |
| Isolation to Ground | V | 350Vac, 500Vdc | |
| EMC General | - | EN 61326-1:2021 | |
| Immunity | - | EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11 | |
| Conducted and Radiated Emissions | - | CISPR11 Class A | |

Outline Drawing



NOTE
 1. MOUNTING HOLES FOR SLIDES P/N:CC3001-00-S160, GENERAL DEVICES OR EQUIVALENT. USE #10-32x0.375 INCH x 3 SCREWS FOR EACH SLIDE IN POSITION MARKED BY "A". ENSURE THAT THE SCREWS DO NOT PENETRATE MORE THAN 6.0mm INTO THE UNIT.
 2. MOUNTING HOLES FOR 19" RACK. USE M6x16 SCREWS TO FIX THE UNIT TO THE RACK.
 3. UNLESS OTHERWISE SPECIFIED, RACK DIMENSIONS COMPLIES TO EIA310 & JIS C 6010 STANDARDS.



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