

2kVA and 3kVA AC Programmable Power Sources

<https://product.tdk.com/en/power/gac>  
[www.emea.lambda.tdk.com/gac](http://www.emea.lambda.tdk.com/gac)



Suitable for 1U high rack or bench mounting, the GENESYS™ AC (GAC) programmable power sources have a very high power density. The series currently offers power levels of 2kVA and 3kVA, with voltages adjustable from 0V to 350Vac and  $\pm 500Vdc$  (GAC-PRO models), currents from 0 to 30Arms and frequencies from 16Hz to 1200Hz, (5000Hz option on GAC-PRO). Multiple remote programming methods are available, including built-in LAN, USB, RS232 & RS485 and optional IEEE/GPIB interface. The GENESYS™ AC PRO models include real time analog control functionality necessary for more complex test scenarios. The GENESYS™ AC series has a full colour LCD, multi-language, touch panel display for ease of use and a GUI interface.

| Features  | Benefits   |
|---|--|
| • 1U 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                                       |
| • Parallellable to 9kW single and multi-phase                 | • Scalable for Larger Systems and Multiple Phase Operation |
| • Five Year Warranty  | • Low Cost of Ownership                                    |

**Part Numbering Scheme**

An easy to use on-line part number configurator is available. Click [here](#) for EMEA region, click [here](#) for the Americas region.



| GAC-PRO - 03          |                               | B  | A | 1                         | A | - 00        | A | 00                 | A |
|-----------------------|-------------------------------|--|---|---------------------------|---|-------------|---|--------------------|---|
| Series Name           | Front Panel Type/Color        | Communication Interface  |   | Frequency Limit           |   | Accessories |   | Additional Options |   |
| GAC                   | A - Full Panel (Grey)         | 1 - Built-in RS232, RS485, USB, LAN                                    |   | A - AC Mode, 1200Hz       |   | A - None    |   | 00 - None          |   |
| GAC-PRO               | B - Full Panel (Black)        | 2 - IEEE/GPIB + built-in RS232, RS485, USB, LAN                        |   | B - AC + DC Mode, 1200Hz* |   |             |   |                    |   |
|                       | C - Blank Panel (Grey)        |  |   | C - AC + DC Mode, 5000Hz* |   |             |   |                    |   |
|                       | D - Blank Panel (Black)       |  |   |                           |   |             |   |                    |   |
| 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)  |   |                           |   |             |   |                    |   |
|                       |                               | IEC & Other Standards  |   |                           |   |             |   |                    |   |
|                       |                               | A - None   |   |                           |   |             |   | GAC-PRO Only*      |   |
|                       |                               | B - IEC61000-4-11  |   |                           |   |             |   | GAC-PRO Only*      |   |
|                       |                               | C - IEC61000-4-13  |   |                           |   |             |   | GAC-PRO Only*      |   |
|                       |                               | D - MIL-STD-1399-300 PART 1  |   |                           |   |             |   | GAC-PRO Only*      |   |
|                       |                               | E - IEC61000-4-11 & IEC61000-4-13                                      |   |                           |   |             |   | GAC-PRO Only*      |   |
|                       |                               | F - IEC61000-4-11 & MIL-STD-1399-300 PART 1                            |   |                           |   |             |   | GAC-PRO Only*      |   |
|                       |                               | G - IEC61000-4-13 & MIL-STD-1399-300 PART 1                            |   |                           |   |             |   | GAC-PRO Only*      |   |
|                       |                               | H - IEC61000-4-11 & IEC61000-4-13 & MIL-STD-1399-300 PART 1            |   |                           |   |             |   | GAC-PRO Only*      |   |
|                       |                               | I - Wave Generator & Harmonic Analysis                                 |   |                           |   |             |   | GAC ONLY           |   |
|                       |                               | J - IEC61000-4-11 & Wave Generator & Harmonic Analysis                 |   |                           |   |             |   | GAC ONLY           |   |
|                       |                               | K - IEC61000-4-13 & Wave Generator & Harmonic Analysis                 |   |                           |   |             |   | GAC ONLY           |   |
|                       |                               | L - IEC61000-4-11 & IEC61000-4-13 & Wave Generator & Harmonic Analysis |   |                           |   |             |   | GAC ONLY           |   |

\*\*\*Contact factory for availability

| Specification               |     |   |  |   |
|-----------------------------|-----|---|--|---|
| Model                       |     | 2kVA 1200Hz<br>2kVA 5000Hz  | 3kVA 1200Hz<br>3kVA 5000Hz   | Notes   |
| <b>AC Input</b>             |     |   |  |   |
| Nominal Input Voltage       | Vac | 1-Phase: 100 – 240<br>3-Phase 200: 190 – 240<br>3-Phase 480: 380 – 480                  |  | Output power is limited to 1500W or 1500VA at input voltage below 170Vac  |
| Input Voltage Range         | Vac | 1-Phase: 85 – 265<br>3-Phase 200: 190 – 240<br>3-Phase 480: 380 – 480                   |  | Output power is limited to 1500W or 1500VA at input voltage below 170Vac  |
| Maximum Input Current       | A   | 1-Phase: 12.4 at 200Vac<br>3-Phase 200Vac: 7.5 at 200Vac<br>3-Phase 480Vac: 4 at 380Vac | 1-Phase: 18.5 at 200Vac<br>3-Phase 200Vac: 11.2 at 200Vac<br>3-Phase 480Vac: 6 at 380Vac |   |
| Input Frequency             | Hz  | Nominal: 50 – 60, Frequency range: 47 – 63  |  |   |
| Power Factor                | %   | 1-Phase: 0.96<br>1-Phase: 0.98  | 3-Phase: 0.92<br>3-Phase: 0.94   | Typical at rated output power, rated output current. DC mode or sine wave the load power factor is 1  |
| Efficiency                  | %   | 1-Phase: 78<br>3-Phase: 79  | 1-Phase: 81.5<br>3-Phase: 82.5   | Typical at rated output power, rated output current, DC mode or sine wave, load power factor is 1<br>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   | <52   | <52  | Not including the EMI filter inrush current, less than 0.2ms. 1-Phase input, at input line ≥ 240Vac, less than 70A.   |
| <b>Programming</b>          |     |   |  |   |
| 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 for 2kVA or 8.571A for 3kVA, the output voltage setting is limited to rated output power. Refer to Figure 1 and Figure 3.                  |
| Programming Resolution      | V   | ≤0.02   |  |   |
| Programming Accuracy        | %   | 16 – 1200Hz: ≤0.2, 1200.1 – 5000Hz: ≤0.4  |  |   |
| <b>AC Output Current</b>    |     |   |  |   |
| Rated Output RMS current    | A   | 20  | 30   | Minimum current is guaranteed to maximum 0.2% of rated output current.  |
| Setting Range               | A   | 0 – 20.2  | 0 – 30.2   | Maximum RMS current setting range is associated with the output voltage setting. When the output voltage setting is above 100Vac, the output current setting is limited to rated output power. Minimum constant current regulation value is 5% of the rated output current. |
| <b>AC Output Power</b>      |     |   |  |   |
| Rated Output Apparent Power | VA  | 2000  | 3000   |   |
| Load Power Factor           | -   | 0 – 1 (leading or lagging)  |  |   |
| <b>Frequency</b>            |     |   |  |   |
| Range                       | Hz  | 1200Hz models: 16 – 1200, 5000Hz models: 16 – 5000                                      |  |   |
| Programming Resolution      | Hz  | 16 – 1200Hz: 0.01, 1200.1 – 5000Hz: 0.1   |  |   |
| Programming Accuracy        | %   | ≤0.01   |  |   |

| Specification            |     |                            |                            |  |
|--------------------------|-----|----------------------------|----------------------------|--|
| Model                    |     | 2kVA 1200Hz<br>2kVA 5000Hz | 3kVA 1200Hz<br>3kVA 5000Hz | Notes  |
| <b>DC Output Voltage</b> |     |                            |                            |  |
| 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 | 0 – ±500                   |                            |  |
| Programming Resolution   | Vdc | ≤0.02                      |                            | Maximum DC voltage setting range is associated with the output current setting. When the output current setting is above 4A for 2kW or 6A for 3kW, the output voltage setting is limited to rated output power. Refer to Figure 2 and Figure 4.                      |
| Programming Accuracy     | %   | ≤0.15                      |                            |  |
| <b>DC Output Current</b> |     |                            |                            |  |
| Rated Output DC Current  | Adc | 20                         | 30                         | Minimum current is guaranteed to maximum 0.2% of rated output current. 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. |
| Setting Range            | Adc | 0 – 20.2                   | 0 – 20.2                   |  |
| <b>DC Output Power</b>   |     |                            |                            |  |
| Rated Output Power       | W   | 2000                       | 3000                       |  |

| Measurement                     |          |   |                            |  |
|---------------------------------|----------|---|----------------------------|--|
| Model                           |          | 2kVA 1200Hz<br>2kVA 5000Hz                    | 3kVA 1200Hz<br>3kVA 5000Hz | Notes  |
| <b>Output Voltage</b>           |          |   |                            |  |
| 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   |                            |  |
| <b>Output Current</b>           |          |   |                            |  |
| 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  |                            |  |
| <b>Output Power</b>             |          |   |                            |  |
| 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                       |  |
| <b>Frequency</b>                |          |   |                            |  |
| Resolution                      | Hz       | 16 – 1200Hz: 0.01, 1200.1 – 5000Hz: 0.1       |                            |  |
| Accuracy                        | %        | ≤0.1  |                            | Accuracy is guaranteed above 5% of rated output voltage. |
| <b>Harmonics Measurement</b>    |          |   |                            |  |
| Fundamental Frequency           | Hz       | 16 – 1000                                     |                            |  |
| Harmonic Frequency / Harmonic # | Hz       | 32 – 50000 / 2 – 50                           |                            |  |
| Measurement Items               | -        | RMS Voltage, RMS current, phase angle and THD |                            |  |

| Measurement   |          |  |   |  |
|---|----------|--|---|--|
| Model   |          | 2kVA 1200Hz<br>2kVA 5000Hz   | 3kVA 1200Hz<br>3kVA 5000Hz                        | Notes  |
| <b>Stability</b>  |          |  |   |  |
| Line Regulation   | %        | ≤0.02  |   |  |
| Load Regulation   | %        | ≤0.03  |   | Load power factor is 1.  |
| Total Harmonic Distortion (THD)                             | %        | 16 – 500: ≤0.4, 500 – 1200: ≤0.7, 1200 – 5000: ≤1  |   | Load power factor is 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.<br>Remote sense connected                            |   |  |
| Warm-up Drift (voltage)                                     | %        | Less than 0.05% of rated output voltage over 30 minutes following power on   |   |  |
| <b>Supplemental</b>   |          |  |   |  |
| 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 |  |
| Ripple RMS  | mVdc     | ≤500   |   |  |
| Transient Response Time                                     | µs       | ≤40  |   | 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. |
| Response Speed T(rise), T(fall)                             | µs       | 1200Hz models: ≤120; 5000Hz models: ≤40  |   | At 10% to 90% of the output voltage.   |
| 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. Form 3-phase system or increase 1-phase output power   |   |  |
| <b>Environmental</b>  |          |  |   |  |
| 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   |   |  |
| <b>Protective Functions</b>                                 |          |  |   |  |
| 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  |   |  |
| <b>Remote Control Interfaces (isolated from the output)</b> |          |  |   |  |
| 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   |   |  |
| GPIB (Optional interface)                                   | -        | IEEE488.1, IEEE488.2 compliant   |   |  |

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

| Measurement                               |   |   |                            |  |
|---|---|---|----------------------------|--|
| Model                                     |   | 2kVA 1200Hz<br>2kVA 5000Hz  | 3kVA 1200Hz<br>3kVA 5000Hz | Notes  |
| <b>Software / Firmware Test Sequences</b> |   |   |                            |  |
| RTCA/DO 160                               | - | Environmental conditions and test procedures for airborne equipment   |                            | Available in Genesys AC Pro<br>(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<br>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<br>Genesys AC Pro. Wave Generator &<br>Harmonic Analysis must be acquired<br>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**

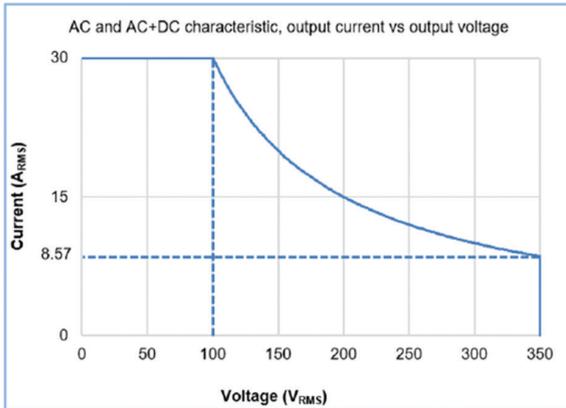


Figure 1: 3kVA AC and AC+DC characteristic

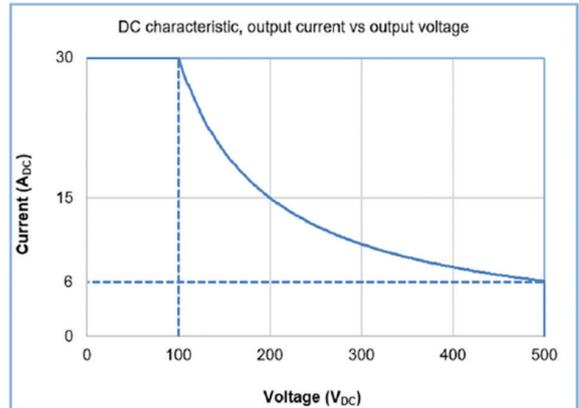


Figure 2: 3kW DC characteristic

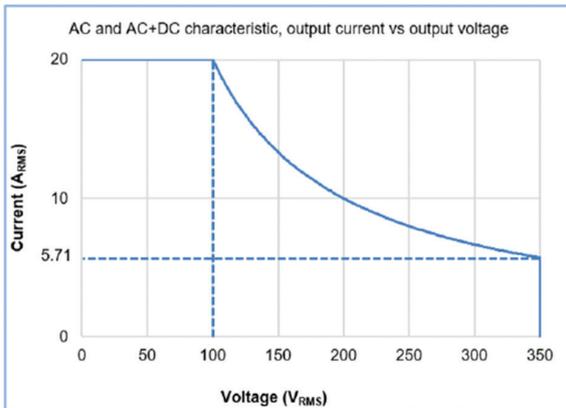


Figure 3: 2kVA AC and AC+DC characteristic

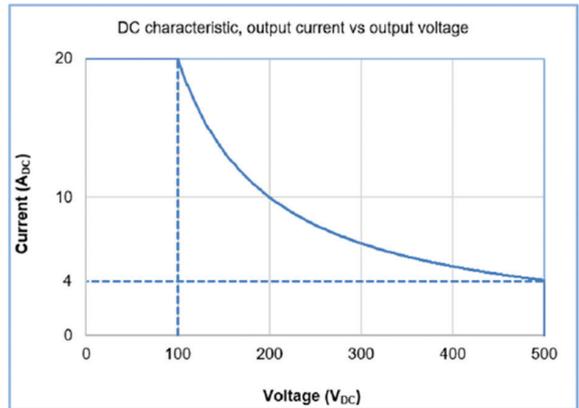


Figure 4: 2kW DC characteristic

**Measurement**

| Model | 2kVA 1200Hz<br>2kVA 5000Hz | 3kVA 1200Hz<br>3kVA 5000Hz | Notes |
|-------|----------------------------|----------------------------|-------|
|-------|----------------------------|----------------------------|-------|

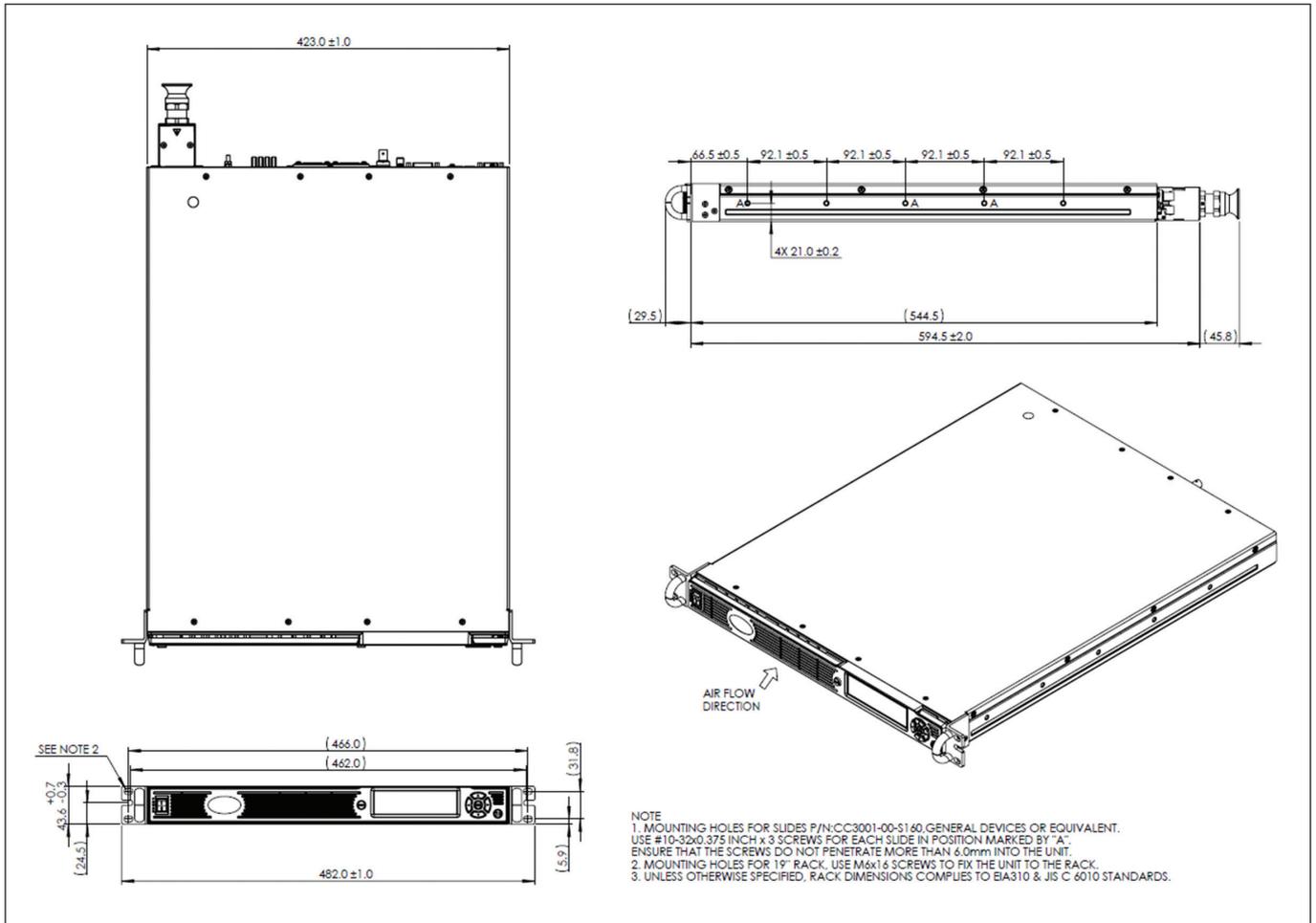
**Mechanical**

|                          |    |  |  |
|--------------------------|----|--|--|
| Cooling                  | -  | Forced air cooling by internal fans. Airflow direction:<br>From front panel to power supply rear   |  |
| Weight                   | kg | ≤8   |  |
| Dimensions               | mm | Without strain relief: W: 423, H: 43.6, D: 544.5,<br>With strain relief: W: 423, H: 43.6, D: 640.5 |  |
| 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;<br>J1, J2, J3, J4, J5, J6, J7 and J8 are non-hazardous  |                              |
| Withstand Voltage                | Vdc 1min | Input – Output (including sense),<br>J1, J2, J3, J4, J5, J6, J7, J8, J9 and J10: 4000<br>Output (including sense), J9 and J10 – J1, J2, J3, J4, J5, J6, J7 and J8: 3850<br>Output (including sense), J9 and J10 – Ground: 3060<br>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,<br>EN 61000-4-6, EN 61000-4-8, EN 61000-4-11   |                              |
| Conducted and Radiated Emissions | -        | CISPR11 Class A  |                              |

## Outline Drawing



### DISTRAME

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