

# ADF Series

High Frequency AC Power Source  
15kW up to 180kW | 1 OR 3-Phase

Economy Model, Essential Functions, Trusted Performance



## Key Specifications

- Single OR Three-Phase
- 85% Energy Efficiency
- up to 15kVA in 4 U chassis
- 15kW parallelable up to 180kW
- Voltage Range:  
300Vac L-N / 520Vac L-L
- Extended Voltage Option:  
400Vac L-N / 690Vac L-L
- Frequency: 45 - 500Hz;  
(Extended Mode 15 - 1200Hz)

## Highlights

- DC Output Mode Option
- Modular and Scalable Power
- Constant Power
- Phase Angle Programming
- Active Three Phase PFC input with Inrush Current Limiting
- Precise Voltage & Load Regulation
- Metering of Volts, RMS Current, Peak Current, Apparent & True Power
- Pure Sine Wave AC Output
- Scalar Measurements
- Protection against overcurrent, short circuit and overtemperature
- **SmartSource Suite** Control Platform

## ADF Series Overview

The ADF Series delivers pure, clean AC output waveforms for reliable and accurate power testing. Select from single-phase OR three-phase models with power levels scalable up to 180kVA+. This economy model provides all the essential functions for frequency conversion and power testing, plus a user-friendly interface. The ADF Series delivers stable, precise, and repeatable performance.

### Application Examples:

- Aerospace & Defense
- Data Center Networks & Servers
- High Frequency Converter
- UPS, Medical, White Goods, Appliances, HVAC
- General Purpose Applications

## Key Advantages



85% Energy Efficiency  
& Unique Sleep Mode



General Purpose  
High Frequency Converter



Pure Sine Wave &  
Scalar Measurements



Cost Effective,  
Economy Model

## Modular & Scalable Power up to 180kW

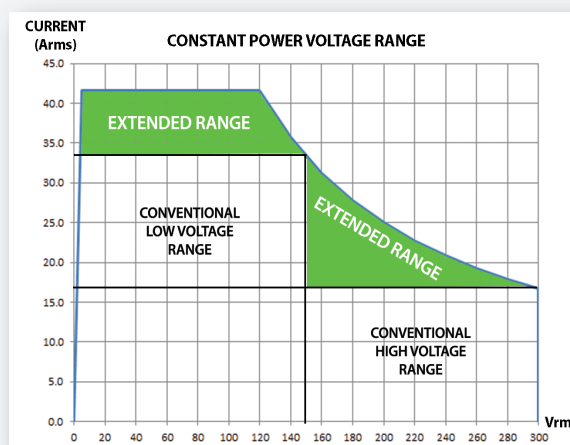
- Flexibility to scale power now or later as you need it
- Paralleled units can have different power ratings
- Auxiliary no-controller models offer low-cost option
- Complete integrated 19" Rack systems; select from 18U, 32U, and 42U standard cabinet sizes
- Parallel configuration kits available for system integrators using their own cabinets.



## Constant Power Provides Wide Operating Envelope

Unlike traditional AC power sources, which trade off voltage and current, the ADF Series operates along a constant power curve providing an extended operating range.

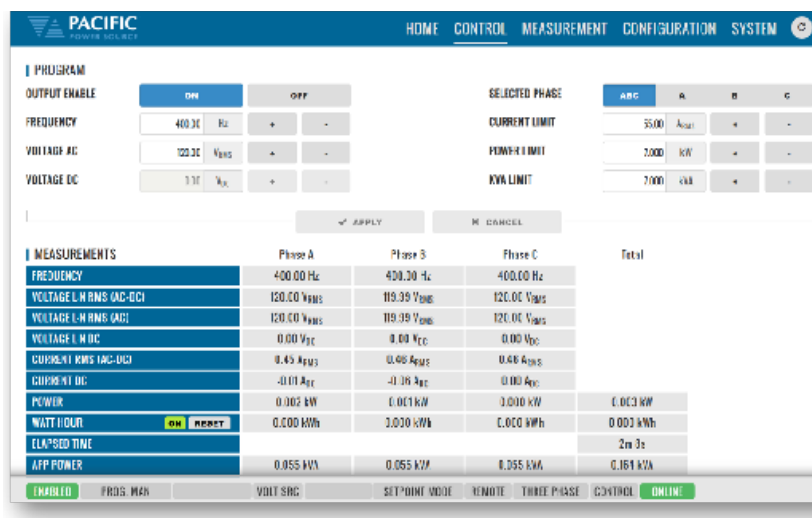
- More current at lower voltages and higher voltage at lower currents
- A wider operating range without switching voltage ranges
- Uninterrupted output, preventing EUT shutdown during testing



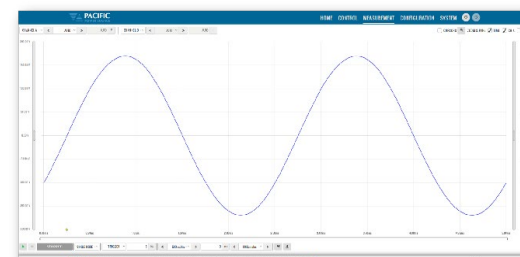
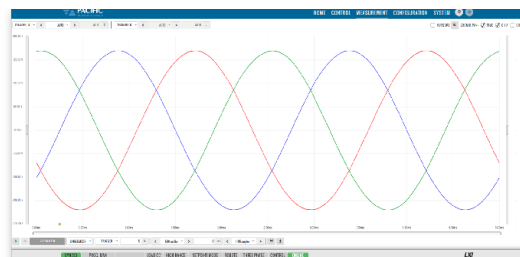
3150ADF (15kVA) operating on a constant power curve. At 160V you get nearly double the current and power, shown in the green shaded area.

## Pure Sine Wave Output Capability

Find over 200 steady state settings available to customize. Save time and increase productivity.

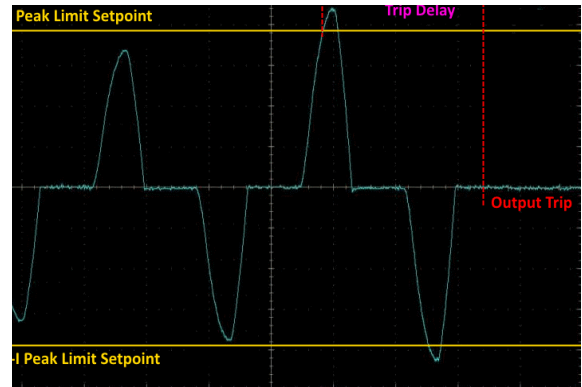


Easily Create Pure Sine Waves



# Layers of Safety Protections

- **Programmable Protections Limits:** RMS Current, Peak Current, Over Voltage, Under Voltage, True Power (Watt), Apparent Power (VA), Frequency Over / Under Limits
- **Galvanic Isolation:** Fully isolation between mains and outputs and individual output phases



Peak Protection Limits

## Available Options for Extended Operating Range

Voltage & Frequency ranges of the ADF Series can be extended using the available "V" and/or "F" options. On three phase ADF models, a single phase output option "M" is available as an option as well. Also available is a DC output mode option "D".

### Option V: Extended Voltage Range to 333Vac L-N

This extended range increases the maximum output voltage to 333Vac L-N / 576Vac L-L. This supports testing up to 20% for 480V nominal powered equipment and allows testing of single phase universal 90V ~ 265V AC input products to 120% of their maximum nominal input specification.

### Option F: Extended Frequency Range to 1200Hz

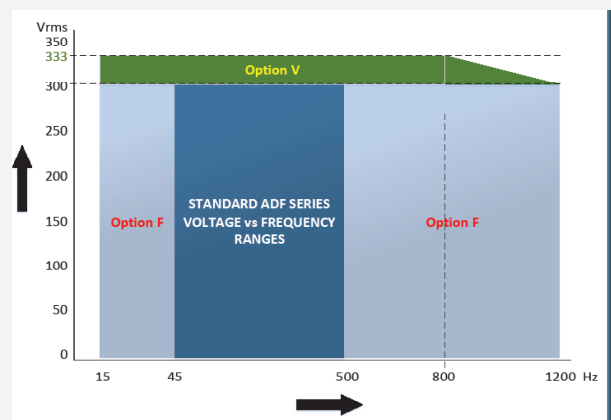
The extended frequency range option supports testing electrical railway equipment (16.6Hz) or testing wild frequency avionics equipment (360Hz-800Hz) by extending the frequency range to 15Hz-1200Hz.

### Option D: DC Output Mode

Add DC output mode to the AC Source. In DC mode, bipolar  $\pm 425\text{Vdc}$  voltage output is available.

### Option M: Single Phase Output Option

Configure a three phase 3xxxADF model to be configured in single phase output mode. This mode requires shorting output terminals A, B & C.



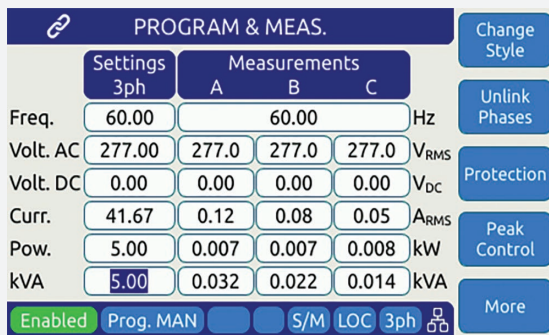
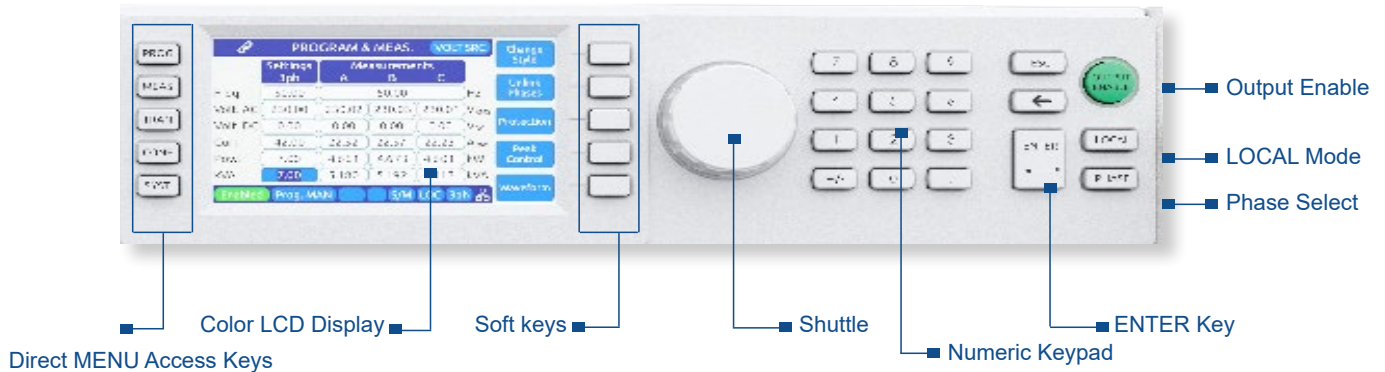
Extended Voltage and Frequency Range



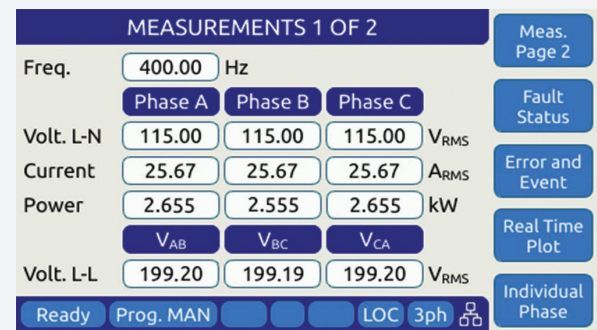
Example Applications

## Simplify Test with Multiple Control Options

Easily access and control the unit through the front panel, USB, or via Ethernet (LAN) on any web browser.



Program & Measurement Screen



Measurement Screen

## SmartSource Suite, Built-In

Breakthrough Remote Control Platform for Enhanced Visualization & Control

The **SmartSource Suite** is an embedded web server that allows you to fully access and control Pacific Power Source products on any web browser, in real-time with an enhanced user experience and visualization tools.

Its intuitive user-interface, full access to all test functions, and easy programming capabilities substantially reduce test time and increase productivity.

- Enhanced Visualization
- Intuitive Test Creation & Execution
- Usability Without Limits



Access SmartSource Suite on Any Web Browser in Real-Time

## High Voltage Output Transformer (T Option 400V)

If the 333Vac LN / 576Vac LL V Option is still not sufficient, the ADF power source can be equipped with an optional output Transformer module. For power levels up to 15kVA/kW, a single ADF style 4U chassis is added. This chassis contains three step-up transformers, one for each phase. This adds a voltage range capable of supporting the following output voltages:

### Single Phase ADF

0-400 VLN

### Three Phase ADF

0-400 VLN/0-692 VLL

Standard voltage ranges and Transformer options for 500VLN and 600VLN applications are available as well.

### Full Frequency Range

The transformer does not reduce the available output power on standard ADF models. Maximum voltage is reduced linearly from 45Hz down to 15Hz<sup>1</sup> and max. current from 1000Hz to 1200Hz on ADF units with the -F Option.

### Constant Power Mode

The 400V transformer range has a constant power profile. That means full power is available all the way down to 160 Vac LN/277 Vac LL on the 400V range.



3150ADFT Shown with Optional 4U T-Option Chassis

### Voltage Sense

On the 400Vac range, voltage sensing auto-adjusts on the transformer's secondary side, ensuring optimal accuracy and compensating for load regulation errors.

| ELECTRICAL          | SPECIFICATIONS                                                            |
|---------------------|---------------------------------------------------------------------------|
| Output Mode         | AC Only                                                                   |
| Voltage Range       |                                                                           |
| 3 Phase ADF Model   | 0-400 Vac LN / 0-692Vac LL                                                |
| 1 Phase ADF Model   | 0-400 Vac LN                                                              |
| Resolution          | 0.01 V                                                                    |
| Accuracy            | $\pm (0.25\% + 0.25^* f \text{ (kHz)}) \text{ F.S.}$                      |
| Voltage Sense       | Auto scales for T option range                                            |
| Frequency Range     | 45Hz - 1000Hz<br>Deratings: Current > 1000Hz of ADF models with -F Option |
| Constant Power Mode | From 40% to 100% of V Range                                               |

| MECHANICAL                                  | SPECIFICATIONS                                                                     |
|---------------------------------------------|------------------------------------------------------------------------------------|
| Mechanical - T Option Chassis (15kVA rated) |                                                                                    |
| H x W x D                                   | 7.0" x 17.0" x 25.0"<br>178 x 482 x 635 mm                                         |
| Weight                                      | 170 lbs. / 77.1 kg                                                                 |
| Mechanical - Cabinet Systems                |                                                                                    |
| Dimensions / Weight                         | Cabinet Systems from 30kVA to 60kVA are available with T Options. See table page 7 |

Note 1: Extended frequency ranges are not supported on this optional AC coupled voltage range.

### Transformer Option Ordering Information

- 1) Standard "T" option is 400Vac L\_N. Consult factory for other voltage ranges
- 2) 4U Transformer Chassis is not included on 1150ADFT or 3150ADFT single chassis models and must be a line item.

## Available Standard Model Configurations

ADF Series AC Sources are available with single phase output up to 45kVA or with three phase output up to 180kVA.

| MODEL    | Phase Mode <sup>1</sup> | Rated Power <sup>2</sup><br>AC mode | Voltage Ranges<br>Vac L-N | Max. AC Current <sup>4</sup><br>3 Phase Mode | Max. AC Current <sup>4</sup><br>1 Phase Mode | AC Input <sup>3</sup><br>-2 or -4 | Form Factor                          |
|----------|-------------------------|-------------------------------------|---------------------------|----------------------------------------------|----------------------------------------------|-----------------------------------|--------------------------------------|
| 1150ADF  | 1 Phase                 | 15 kVA                              | 0-150V / 0-300 V          | n/a                                          | 125 Arms (62.5Adc)                           | -2 or -4                          | 4U Chassis,<br>Bench or<br>Rackmount |
| 3150ADF  | 3 Phase0                | 15 kVA                              |                           | 41.7 Arms / 21.0 Adc                         | n/a                                          |                                   |                                      |
| 1300ADF  | 1 Phase                 | 30 kVA                              |                           | n/a                                          | 250 Arms (125.0 Adc)                         | -2 or -4                          | 18U<br>Cabinet                       |
| 3300ADF  | 3 Phase                 | 30 kVA                              |                           | 83.3 Arms / 41.7 Adc                         | n/a                                          |                                   |                                      |
| 1450ADF  | 1 Phase                 | 45 kVA                              |                           | n/a                                          | 375 Arms (187.5 Adc)                         |                                   |                                      |
| 3450ADF  | 3 Phase                 | 45 kVA                              |                           | 125.0 Arms / 62.5 Adc                        | n/a                                          |                                   |                                      |
| 3600ADF  | 3 Phase                 | 60 kVA                              |                           | 166.7 Arms / 83.3 Adc                        | n/a                                          | -4 Only                           | 32U<br>Cabinet                       |
| 3750ADF  | 3 Phase                 | 75 kVA                              |                           | 208.3 Arms / 104.0 Adc                       | n/a                                          |                                   |                                      |
| 3900ADF  | 3 Phase                 | 90 kVA                              |                           | 250.0 Arms / 125.0 Adc                       | n/a                                          |                                   | 42U<br>Cabinet                       |
| 31050ADF | 3 Phase                 | 105kVA                              |                           | 291.7 Arms / 145.8 Adc                       | n/a                                          |                                   |                                      |
| 31200ADF | 3 Phase                 | 120 kVA                             |                           | 333.3 Arms / 166.7Adc                        | n/a                                          |                                   | 2 x 32U                              |
| 31350ADF | 3 Phase                 | 135 kVA                             |                           | 375.0 Arms / 187.5 Adc                       | n/a                                          |                                   |                                      |
| 31500ADF | 3 Phase                 | 150 kVA                             |                           | 416.7 Arms / 208.3 Adc                       | n/a                                          |                                   | 2 x 32U                              |
| 31650ADF | 3 Phase                 | 165 kVA                             |                           | 458.3 Arms / 228.2 Adc                       | n/a                                          |                                   | 2 x 32U                              |
| 31800ADF | 3 Phase                 | 180 kVA                             |                           | 500.0 Arms / 250.0 Adc                       | n/a                                          |                                   | 2 x 32U                              |

**Note 1:** Single Phase Mode option (M) is available on three phase ADF Models. This option adds single phase output mode.

**Note 2:** Rated power shown is for Three Phase or Single Phase mode operation. For Split Phase mode, rated power is 2/3.

**Note 3:** AC input ratings: -2 = 208Vac Nominal, 3Ø or -4 = 380~480Vac Nominal, 3Ø. See specifications section for AC current requirements.

**Note 4:** DC output current ratings shown apply to ADF models configured with Option D only.

## Models with T-Option Configurations

ADF Series AC Sources offer single-phase output up to 45kVA or three-phase up to 60kVA. Rack-mount and bench models are listed below, while cabinet systems come pre-wired for input and output power. All models require three-phase AC input. For other configurations, contact the factory. The 150/300Vac ranges remain available on T-Option cabinet systems—see the standard model table for current ratings.

| MODEL    | Phase Mode <sup>1</sup>                                   | Rated Power <sup>2</sup><br>AC mode | T Voltage Range<br>Vac L-N | Max. AC Current<br>3 Phase Mode | Max. AC Current<br>1 Phase Mode | AC Input <sup>3</sup><br>-2 or -4 | Form Factor                           |
|----------|-----------------------------------------------------------|-------------------------------------|----------------------------|---------------------------------|---------------------------------|-----------------------------------|---------------------------------------|
| 1150ADFT | 1 Phase                                                   | 15 kVA                              | 0-400 V                    | n/a                             | 93.8 Arms                       | -2 or -4                          | 2x 4U Chassis,<br>Bench or Rack-mount |
| 3150ADFT | 3 Phase                                                   | 15 kVA                              |                            | 31.3 Arms                       | n/a                             |                                   |                                       |
| 1300ADFT | 1 Phase                                                   | 30 kVA                              |                            | n/a                             | 187.6 Arms                      | -2 or -4                          | Fully wired 18U Cabinet               |
| 3300ADFT | 3 Phase                                                   | 30 kVA                              |                            | 62.5 Arms                       | n/a                             |                                   |                                       |
| 1450ADFT | 1 Phase                                                   | 45 kVA                              |                            | n/a                             | 281 Arms                        |                                   |                                       |
| 3450ADFT | 3 Phase                                                   | 45 kVA                              |                            | 93.8 Arms                       | n/a                             |                                   |                                       |
| 3600ADFT | 3 Phase                                                   | 60 kVA                              |                            | 125.0 Arms                      | n/a                             | -4 Only                           | Fully wired 32U Cabinet               |
| Higher   | For higher power T Option configurations, contact factory |                                     |                            |                                 |                                 |                                   |                                       |

**Note 1:** Single Phase Mode option (M) is available on three phase ADF Models. This option adds single phase output mode.

**Note 2:** Rated power shown is for Three Phase or Single Phase mode operation. For Split Phase mode, rated power is 2/3.

**Note 3:** AC input ratings: -2 = 208Vac Nominal, 3Ø or -4 = 380~480Vac Nominal, 3Ø.

# Technical Specifications

| OUTPUT                                                                     | Specification                                                                                  |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Voltage                                                                    |                                                                                                |
| Output Mode                                                                | AC / Optional DC                                                                               |
| 1150ADF                                                                    | Single Phase                                                                                   |
| 3150ADF                                                                    | Three Phase or Split Phase                                                                     |
| Standard Vac Range                                                         | 0-300 Vac LN / 0-520 Vac LL                                                                    |
| Extended Voltage Range <sup>1</sup><br>(Option V)                          | Increases max output voltage to<br>333Vac LN / 576Vac LL                                       |
| Vdc Range (Option D)                                                       | 0 - ± 425 Vdc                                                                                  |
| Programming Resolution                                                     | 0.01 V                                                                                         |
| Accuracy                                                                   | ± 0.25% F.S.                                                                                   |
| Output Waveform                                                            | Sine                                                                                           |
| DC Offset                                                                  | < 20 mV                                                                                        |
| Harmonic Distortion (Vthd)<br>(full, resistive load, up to<br>300Vrms L-N) | < 400 Hz, < 0.5%<br>400 to 500 Hz, < 1.0%<br>(Option F: > 500 Hz, < 1.5%)                      |
| Output Noise (DC to 300kHz)                                                | < 150 mV RMS                                                                                   |
| Load Regulation                                                            | ± 0.02% (CSC Mode)<br>±1% NL to FL (CSC off)                                                   |
| Line Regulation                                                            | < 0.1% for 10% Line Change                                                                     |
| Voltage Sense                                                              | External Sense, max. voltage<br>drop 5% F.S.                                                   |
| Voltage Slew Rate                                                          | AC > 1.0V/us                                                                                   |
| Output Isolation                                                           | 550Vac                                                                                         |
| Frequency                                                                  |                                                                                                |
| Standard Range                                                             | 45.00 – 500.0 Hz                                                                               |
| Extended Range (Option F)                                                  | 15.00 – 1200.0 Hz                                                                              |
| Programming Resolution                                                     | 0.01 Hz                                                                                        |
| Accuracy                                                                   | ± 0.01%                                                                                        |
| Current Limit - RMS and Peak Modes                                         |                                                                                                |
| RMS Range                                                                  | See model table page 5                                                                         |
| Crest Factor                                                               |                                                                                                |
| 1150ADF                                                                    | 2.5:1@125A to 6.3:1@50A<br>(312Apk/phase)                                                      |
| 3150ADF                                                                    | 2.5:1@41.67A to 6.3:1@16.67A<br>(104Apk/phase)                                                 |
| Programming Resolution                                                     | 0.01 Arms                                                                                      |
| Accuracy                                                                   | ± 0.5% F.S.                                                                                    |
| Current Protection Modes                                                   | Constant Current (CC)<br>or Output Trip (CV)                                                   |
| Current Overload Mode                                                      | Allows 130% of max. RMS cur-<br>rent for up to 2.0 secs before CP<br>is triggered when enabled |
| Phase Angle (3 Phase ADF Models only)                                      |                                                                                                |
| Phase Settings                                                             | Three Phs Mode: A = 0°, B =<br>120°, C = 240°<br>Split Phs Mode: A = 0°, B = 180°,<br>C = 0°   |

**Note 1:** Supplemental specifications apply for Extended Voltage (Option V).

| PROTECTION            | Specification                  |
|-----------------------|--------------------------------|
| Available Protections | Over Current fold-back or trip |
|                       | Prog. Peak Current Limit       |
|                       | Power fold-back or trip        |
|                       | App.Power fold-back or trip    |
|                       | Over Voltage trip              |
|                       | Over Temperature trip          |
| OVP Programming Range | 0 ~ 105% of voltage range      |
| AC Input Voltage      | Over and Under Voltage, 15%    |

| MEASUREMENTS                      | Specification           |
|-----------------------------------|-------------------------|
| Voltage (Vrms)                    |                         |
| Range                             | 0 – 350 VLN / 0-600 VLL |
| Resolution                        | 0.01 V                  |
| Accuracy                          | ± 0.25% F.S.            |
| Current (Arms)                    |                         |
| Range                             | See model table page 7  |
| Resolution                        | 0.01 Arms               |
| Accuracy <sup>1</sup>             | ± 0.5% F.S.             |
| Current Crest Factor              |                         |
| Range                             | 1.00 - 5.00             |
| Resolution                        | 0.01                    |
| Accuracy <sup>1</sup>             | ± 2.0% F.S.             |
| Power (W)                         |                         |
| Range                             | See model table page 7  |
| Resolution                        | 0.01 W                  |
| Accuracy <sup>2</sup>             | ± 1.5 % F.S.            |
| Apparent Power (VA)               |                         |
| Range                             | See model table page 7  |
| Resolution                        | 0.01 VA                 |
| Accuracy <sup>2</sup>             | ± 1.5 % F.S.            |
| Power Factor                      |                         |
| Range <sup>2</sup>                | 0.00 - 1.00             |
| Resolution                        | 0.01                    |
| Voltage (Vdc) (Requires Option D) |                         |
| Range                             | 0 – 440 Vdc             |
| Resolution                        | 0.01 V                  |
| Accuracy                          | ± 0.25% F.S.            |
| Current (Adc) (Requires Option D) |                         |
| Range                             | See model table page 7  |
| Resolution                        | 0.01 Arms               |
| Accuracy <sup>1</sup>             | ± 0.5% F.S.             |

**Note 1:** For Currents above 2.0 A

**Note 2:** For Power levels above 100 W

| INTERFACES     | Description                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------------------|
| Remote Control |                                                                                                                             |
| USB            | Device Type B                                                                                                               |
| RS232          | 1200 - 921600 baud                                                                                                          |
| LAN            | LXI compliant, Ethernet, RJ45, TCP/IP<br>Protocol, Telnet Protocol Command Line                                             |
| LXI Compliant  | <br>LAN Extensions for Instrumentation |
| GPIB           | IEEE488.1, IEEE488.2 (2003 incl., NI<br>HS488)<br>IEC 60488-1, IEC 60488-2 (2004)                                           |
|                | Functions: SH1, AH1, T6, L3, SR1,<br>RL1, DC1, DT1                                                                          |
| WiFi           | Optional USB WiFi adaptor                                                                                                   |

| SYSTEM FEATURES | Description                         |
|-----------------|-------------------------------------|
| DISPLAY         |                                     |
| Type            | Full Color, Touch LCD Display       |
| Size            | 4.3" Diagonal                       |
| Resolution      | 480 x 272 pixels                    |
| USB Ports       | 2 Front Panel, 1 Rear Panel, Type A |
| SD Card         | 32 GB max. Capacity                 |
| Video Output    | Monitor Out, Front Panel            |

| AC INPUT                                                      |                           | 15 kVA Models <sup>5</sup> |
|---------------------------------------------------------------|---------------------------|----------------------------|
| Mains Voltage Form                                            | 4 Wire, L1, L2, L3 and PE |                            |
| Frequency                                                     | 47 - 63 Hz                |                            |
| -2 AC Input Versions (Available for systems up to 45kVA only) |                           |                            |
| Input Voltage Range                                           | 208Vac – 240Vac ± 10%     |                            |
| Nominal Phase Current <sup>1</sup>                            | 54 Arms                   |                            |
| Peak Inrush Current <sup>2</sup>                              | < 1.5 x Irms              |                            |
| Input Power Factor                                            | > 0.9                     |                            |
| Efficiency                                                    | > 85%                     |                            |
| -4 AC Input Versions (Available for all power levels)         |                           |                            |
| Input Voltage Range                                           | 380Vac – 480Vac ± 10%     |                            |
| Nominal Phase Current <sup>3</sup>                            | 30 Arms                   |                            |
| Nominal Phase Current <sup>4</sup>                            | 24 Arms                   |                            |
| Peak Inrush Current <sup>2</sup>                              | < 1.5 x Irms              |                            |
| Input Power Factor                                            | > 0.9                     |                            |
| Efficiency                                                    | > 85%                     |                            |

**Notes:**

1: Per ADF unit, 3 $\phi$ , 208V nom. input voltage

2: Irms = Max. peak inrush current per unit

3: Per ADF unit, 380V nom. input voltage

4: Per ADF unit, 480V nom. input voltage

5: For parallel systems above 15 kVA, input current is multiplied by number of units

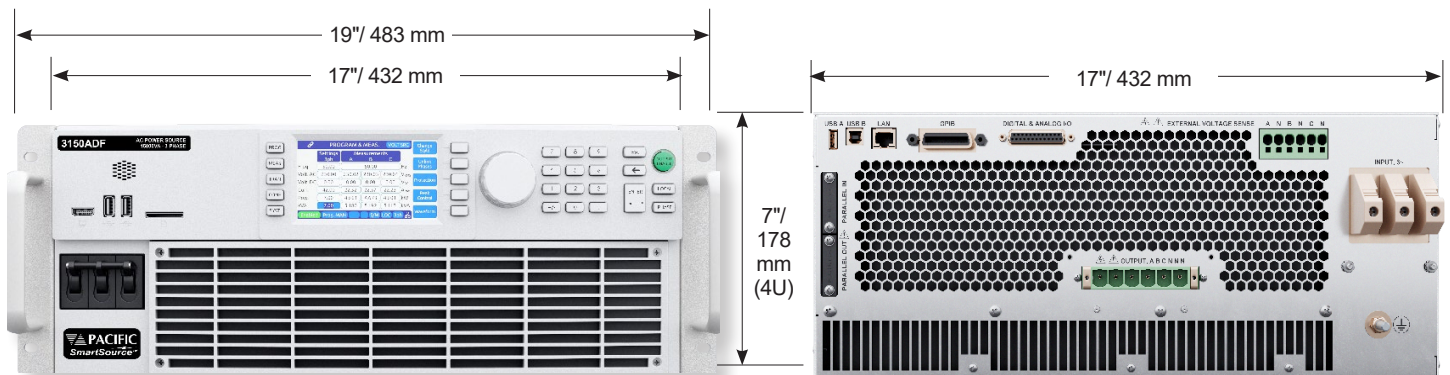
| ANALOG & DIGITAL I/O |                                                            | Specification |
|----------------------|------------------------------------------------------------|---------------|
| Analog Inputs (4)    | AI1, AI2, AI3, AI4<br>user defined functions               |               |
| Range                | -10 to +10V                                                |               |
| Accuracy             | $\pm$ 0.1% F.S.                                            |               |
| Impedance            | 5 kOhm                                                     |               |
| Analog Outputs (4)   | AO1 AO2, AO3, AO4<br>user defined measurement<br>functions |               |
| Range                | 0 - 5Vdc for 0 - F.S.                                      |               |
| Accuracy             | $\pm$ 0.1% F.S                                             |               |
| Impedance            | <10 Ohm                                                    |               |
| Digital Inputs (6)   | Remote Inhibit, Trigger, Sync                              |               |
| Input Levels         | Low < 0.4V, High > 2.0V                                    |               |
| Digital Outputs (6)  | Output Relay, /Function Strobe,<br>Phase Sync              |               |
| Output Levels        | Low < 0.4V, High > 4.6V                                    |               |
| Connector Type       | DB25, Rear Panel                                           |               |

| DIMENSIONS / WEIGHT                                                                                                                        |  | Specification                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------|
| Dimensions Bench 15kVA Models (4U)                                                                                                         |  |                                                                |
| H x W x D                                                                                                                                  |  | 7.0" x 17.0" x 25.0"<br>178 x 432 x 635 mm<br>See Note 1 below |
| Shipping H x W x D                                                                                                                         |  | 20" x 27" x 38"<br>508 x 686 x 965 mm                          |
| Weight Models up to 15 kVA                                                                                                                 |  |                                                                |
| Net                                                                                                                                        |  | 111.2 lbs. / 50.4 kg                                           |
| Shipping                                                                                                                                   |  | 151 lbs / 68.5 kg                                              |
| Note 1: Units can be zero-stacked in 19" EIA cabinet when using optional rack-slides. When using L-brackets, allow 1U space between units. |  |                                                                |

| ENVIRONMENTAL                         | Specification                                                          |
|---------------------------------------|------------------------------------------------------------------------|
| Cooling                               | Variable speed fan cooled, front intake with dust filter, rear exhaust |
| Audible Noise:<br>At 1 meter distance | Standby: 46 dBA<br>Full power: 85 dBA typical                          |
| Sleep Modes                           | Standby, All Power Stages off                                          |
| Temperature                           |                                                                        |
| Operating                             | 0 to 40 °C / 32 to 104 °F                                              |
| Storage                               | -20 to 70 °C / -4 to 158 °F                                            |
| Humidity                              | < 80%, non-condensing                                                  |
| Altitude                              | 2000 m / 6500 feet                                                     |

| REGULATORY                  |                                                                              | Specification |
|-----------------------------|------------------------------------------------------------------------------|---------------|
| Safety                      |                                                                              |               |
| Standard                    | IEC 61010-1:2010 (Edition 3)                                                 |               |
| EMC                         |                                                                              |               |
| Emissions Standard          | EN 55011:2009+A1:2010                                                        |               |
| Immunity Standard           | EN 61000-4-2, -3, -4, -5, -6, -8, -11                                        |               |
| Product Category            | EN 61326-1:2013 (Measurement, Laboratory and Control Equipment)              |               |
| Approvals                   | CE Mark<br>NRTL Nemko on units delivered within North America or Canada only |               |
| RoHS (DIRECTIVE 2011/65/EU) |                                                                              |               |
| Product Category            | EN50581:2012                                                                 |               |

## Unit Dimensions



The 3150ADF is designed for bench top or 19" equipment rack operation.

The Rear Panel provides connections for AC Input, External Sense, Aux I/O and remote control interfaces.

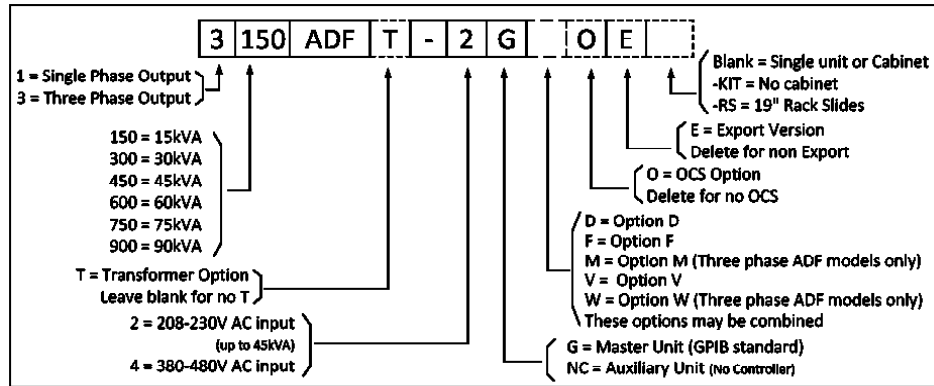
# Ordering Information

| Bench Models                                                                                             | Cabinet Systems <sup>1</sup>                                                                                                                                                                                                                    | Cabinet KIT Systems <sup>1</sup> (x = 2 or 4)                                                                                                                                                                                                                                                    | Available Options                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> 1150ADF<br><input type="checkbox"/> 3150ADF                                     | <input type="checkbox"/> 1300ADF <input type="checkbox"/> 3600ADF<br><input type="checkbox"/> 3300ADF <input type="checkbox"/> 3750ADF<br><input type="checkbox"/> 1450ADF <input type="checkbox"/> 3900ADF<br><input type="checkbox"/> 3450ADF | <input type="checkbox"/> 1300ADF-xG-KIT <input type="checkbox"/> 3600ADF-4G-KIT<br><input type="checkbox"/> 3300ADF-xG-KIT <input type="checkbox"/> 3750ADF-4G-KIT<br><input type="checkbox"/> 1450ADF-xG-KIT <input type="checkbox"/> 3900ADF-4G-KIT<br><input type="checkbox"/> 3450ADF-xG-KIT | <input type="checkbox"/> D DC Output Mode<br><input type="checkbox"/> F Extended Frequency Range<br><input type="checkbox"/> M Single Phase Mode <sup>2</sup><br><input type="checkbox"/> O Output control switch<br><input type="checkbox"/> T Output Transformer 400V Range<br><input type="checkbox"/> V Extended Voltage Range<br><input type="checkbox"/> W Isolated Output Neutrals <sup>2</sup> |
| Auxiliary Models (No controller)                                                                         | Input Voltage (V <sub>IN</sub> )                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                  | Export Version                                                                                                                                                                                                                                                                                                                                                                                         |
| <input type="checkbox"/> 1150ADF-2NC / 1150ADF-4NC<br><input type="checkbox"/> 3150ADF-2NC / 3150ADF-4NC | <input type="checkbox"/> -2 208V - 240Vac, 3Ø ± 10%, 47-63Hz<br><input type="checkbox"/> -4 380V - 480Vac, 3Ø ± 10%, 47-63Hz                                                                                                                    |                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> E Append "E" postfix or none                                                                                                                                                                                                                                                                                                                                                  |

## ADF Series Model Number Encoder:

### Note:

- Solid outlined fields must be specified
- Dashed outlined fields are optional.



## Order Example

### 3150ADF-2AG

- Bench Model, 15 kVA, 3-Phase, AC Power Source with USB, RS232, LAN, GPIB & AUX I/O
- 380~480Vac 3 Phase AC Input Voltage

## Typical Delivery Items

- AC & DC Power Source
- English Manuals in PDF
- Rack Mount Handles
- Certificate of Compliance

## Available Accessories

- Output shorting adapter for single phase output mode use (Three Phase ADF Model only). P/N 160086
- Paralleling Cable, 1 Ft. (Included with Aux models). P/N 778036
- Rack slides. P/N 703251

### Note 1:

Cabinet systems consist of one master unit and one or more auxiliary units integrated into a 19 inch EIA cabinet. Includes input and output wiring to rear mounted compression terminal blocks. Shown with optional Emergency Power Off (EPO). Customers that require the use of their own cabinets can order system kits without cabinet.

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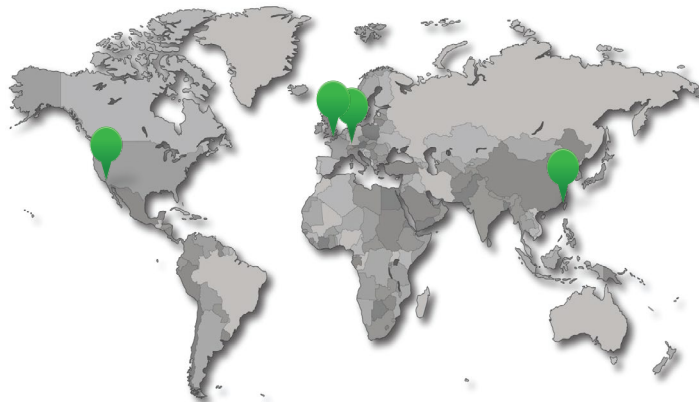


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