

# There's a better solution... at a better price.



The APS 1000 Series frequency and voltage converters are economically priced and offer top of the line performance.

The series consists of seven 1 phase output instruments ranging in size from 3 kVA to 60 kVA. The converters allow the user to duplicate a utility grid of either 50 or 60 hertz for export product testing or operation of imported equipment. The frequency can be adjusted to 400 hertz for applications such as the testing of military/avionics equipment or for the operation of 400 hertz electronics that are onboard an aircraft or a military vessel. The adjustable frequency band of 45 to 500 Hertz in conjunction with the dual voltage ranges of 0-150 volts or 0-300 volts provides full capabilities for testing and operating electronics worldwide.

Setup and operation of the APS 1000 Series is exceptionally easy. The simple front panel layout allows users to continuously vary voltage and frequency or to select preset standard frequency settings. Individual meter displays provide digital readouts for frequency, voltage and current while a digital multimeter displays power or power factor.

The APS 1000 Series converters are a simple and cost effective solution for all of your AC power conversion needs!

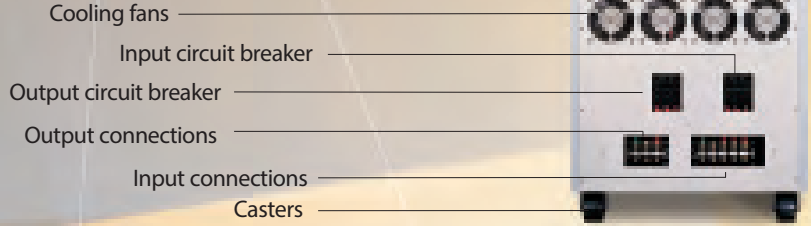
## Key Features & Specifications for the APS 1000 Series

- Output Power: 3 kVA to 60 kVA
- Output Frequency: 45-500 Hz (also available: 360-440 Hz)
- Output Voltage: Dual range, 0/150 V or 0/300 V, 1 phase  
Optional 300V/600V<sub>LN</sub> ranges available on most models
- Isolated Output, THD: < 1%
- Input Requirements: 208, 220, 240, 380, 415, 480 VAC  $\pm$  10%, 3 phase, 47-63 Hz (3kVA and 5kVA, 230VAC  $\pm$  15%, 1 phase)
- Intuitive Front Panel Controls: Frequency and Voltage
- Easy to Read LED Displays: Frequency, Voltage, Current, Power and Power Factor
- Memory Locations: Can save three desired settings of any voltage, frequency and current limit output parameters

Worldwide Supplier of Power  
Conversion Equipment



# APS 1000 Series



## Instrument Specifications

| MODEL                            |                     | 1003                                                                                           | 1005   | 1010    | 1020                                                  | 1030            | 1040            | 1060     |              |
|----------------------------------|---------------------|------------------------------------------------------------------------------------------------|--------|---------|-------------------------------------------------------|-----------------|-----------------|----------|--------------|
| <b>INPUT SPECIFICATIONS</b>      |                     |                                                                                                |        |         |                                                       |                 |                 |          |              |
| Phases                           |                     | 1Ø / 2W + ground                                                                               |        |         | 3Ø / 3W + ground                                      |                 |                 |          |              |
| Voltage                          |                     | 230V±15%                                                                                       |        |         | 208V, 220V, 240V (3W+G), 380V, 415V, 480V (4W+G) ±10% |                 |                 |          |              |
| Frequency                        |                     | 47-63Hz                                                                                        |        |         |                                                       |                 |                 |          |              |
| <b>OUTPUT SPECIFICATIONS</b>     |                     |                                                                                                |        |         |                                                       |                 |                 |          |              |
| Power Rating                     | Total Power         | 3 kVA                                                                                          | 5 kVA  | 10 kVA  | 20 kVA                                                | 30 kVA          | 40 kVA          | 60 kVA   |              |
| Max Current                      | 150V Range          | 25.2 A                                                                                         | 42.0 A | 84.0 A  | 168.0 A                                               | 252.0 A         | 336.0 A         | 500.0 A  |              |
|                                  | 300V Range          | 12.6 A                                                                                         | 21.0 A | 42.0 A  | 84.0 A                                                | 126.0 A         | 168.0 A         | 250.0 A  |              |
| Phases                           |                     | 1Ø / 3 Wire (L, N, Gnd)                                                                        |        |         |                                                       |                 |                 |          |              |
| Voltage                          | Low Range           | 0 - 150 V                                                                                      |        |         |                                                       |                 |                 |          |              |
|                                  | High Range          | 0 - 300 V                                                                                      |        |         |                                                       |                 |                 |          |              |
|                                  | Option 600          | 300V/600V Ranges available on 10KVA to 60KVA models - Option 600                               |        |         |                                                       |                 |                 |          |              |
|                                  | Resolution          | 0.1 V                                                                                          |        |         |                                                       |                 |                 |          |              |
| Frequency                        | Accuracy            | ± ( 1.0% + 0.2 V )                                                                             |        |         |                                                       |                 |                 |          |              |
|                                  | Range               | Standard models: 45-500 Hz, Also available as -400 version for 360-440Hz applications only     |        |         |                                                       |                 |                 |          |              |
|                                  | Resolution          | 0.1 Hz at 45 - 99.9 Hz, 1 Hz at 100 - 500 Hz                                                   |        |         |                                                       |                 |                 |          |              |
| Accuracy                         |                     | ± 0.2%                                                                                         |        |         |                                                       |                 |                 |          |              |
|                                  | Harmonic Distortion | ≤ 1% ( Resistance Load )                                                                       |        |         |                                                       |                 |                 |          |              |
| Crest Factor                     |                     | ≥ 3 to 1                                                                                       |        |         |                                                       |                 |                 |          |              |
| Load Regulation                  |                     | ± 0.5%                                                                                         |        |         |                                                       |                 |                 |          |              |
| Protection                       |                     | Over Current, Short Circuit, Over Temperature                                                  |        |         |                                                       |                 |                 |          |              |
| Efficiency                       |                     | ≥ 85% ( at full load )                                                                         |        |         |                                                       |                 |                 |          |              |
| <b>ENVIRONMENTAL</b>             |                     |                                                                                                |        |         |                                                       |                 |                 |          |              |
| Operating Temperature            |                     | 32° - 104° F / 0° - 40° C                                                                      |        |         |                                                       |                 |                 |          |              |
| Relative Humidity                |                     | 80%, non-condensing                                                                            |        |         |                                                       |                 |                 |          |              |
| Altitude                         |                     | Below 6500 feet / 2000 m                                                                       |        |         |                                                       |                 |                 |          |              |
| <b>DISPLAYS AND CONTROLS</b>     |                     |                                                                                                |        |         |                                                       |                 |                 |          |              |
| 4 Digit LED Meters               |                     | Frequency, Voltage, Current, Power or Power Factor ( simultaneously )                          |        |         |                                                       |                 |                 |          |              |
| PLC Remote Interface             |                     | Run Programs P1, P2, P3, and Output On/Off                                                     |        |         |                                                       |                 |                 |          |              |
| Memory                           |                     | 8 Memory Locations for Voltage, Frequency, Test Time, Delay Time, Current, Power and PF Limits |        |         |                                                       |                 |                 |          |              |
| Calibration                      |                     | Front Panel Calibration                                                                        |        |         |                                                       |                 |                 |          |              |
| Interface (Optional)             |                     | GPIB (Option 606) or RS-232 & USB (Option 643) - Requires Option (P)-PRC                       |        |         |                                                       |                 |                 |          |              |
| Auto Voltage Adjust              |                     | Enables improved voltage regulation within ± 0.1 V                                             |        |         |                                                       |                 |                 |          |              |
| <b>MECHANICAL SPECIFICATIONS</b> |                     |                                                                                                |        |         |                                                       |                 |                 |          |              |
| Model                            |                     | 1003                                                                                           | 1005   | 1010    | 1020                                                  | 1030            | 1040            | 1060     |              |
| Dimensions                       | Inches              | 12 x 26 x 17                                                                                   |        |         | 28 x 29 x 17                                          | 33 x 29 x 17    | 43 x 39 x 24    |          | 66 x 39 x 32 |
|                                  | (H x D x W)         | 305 x 660 x 432                                                                                |        |         | 709 x 730 x 430                                       | 839 x 730 x 430 | 1079x 980 x 600 |          | 1662x980x800 |
| Weights                          |                     | (Kg / lbs.)                                                                                    | 95/210 | 125/275 | 228/503                                               | 350/772         | 592/1305        | 663/1462 | 885/1951     |



### PPST Solutions, Inc. Sales Department

17711 Mitchell North, Irvine CA 92614  
 Direct: 888-239-1619 • Fax: 949-756-0838  
 Email: info@ppstsolutions.com  
 www.adaptivepower.com www.ppstsolutions.com

