



## AHA-FC Series 1-15kVA

### Static Voltage Frequency Converter

## Features

- Static Voltage Frequency Converter
- Microprocessor Control, IGBT Module and PWM technology
- Wide input Voltage range and Generator Compatible
- Special air-flow Control, Designed for Harsh environment
- DC Start and automatic self-diagnostic Function
- LCD and LED display UPS status and Internal message
- Built-in high Capacity Charger for long Backup time (Optional)
- Smart Computer interface and SNMP Management Capability (Optional)
- Full Protections : Overload, Over Voltage, Short Circuit, Over temperature etc
- Front Door Installation and Maintenance
- User-friendly Compact Design
- Green Power Minimizes Environment Pollution

### All Specification Can be Customized

- 1 **Voltage** : 100/110/115/120/200/  
220/230/380/400Vac
- 2 **Phase** : 1P:1P / 3P:1P
- 3 **Frequency** : 50/60/400Hz

## \* SPECIFICATIONS : Static Voltage Frequency Converter

| MODEL : AHA                      | 103-FC  | 303-FC  | 373-FC          | 503-FC | 603-FC | 653-FC          | 803-FC | 104-FC | 3104-FC                                | 3124-FC | 3154-FC         |
|----------------------------------|---|---|-----------------|--------|--------|-----------------|--------|--------|--|---------|-----------------|
| Capacity                         | 1kva  | 3kva  | 3.75kva         | 5kva   | 6kva   | 6.5kva          | 8kva   | 10kva  | 10kva                                  | 12kva   | 15kva           |
| Phase                            | 1 Phase Input / 1 Phase Output                                      |   |                 |        |        |                 |        |        | 3 Phase Input / 1 Phase Output         |         |                 |
| <b>INPUT</b>                     |   |   |                 |        |        |                 |        |        |  |         |                 |
| Voltage                          | 1P, 100-120V or 200-240Vac  | 1P, 220Vac -15%, +25%   |                 |        |        |                 |        |        | 3P3W, 220V or 3P4W, 220/380V,-15% +25% |         |                 |
| Frequency                        | 50Hz or 60Hz $\pm$ 5%   |   |                 |        |        |                 |        |        |  |         |                 |
| <b>OUTPUT</b>                    |   |   |                 |        |        |                 |        |        |  |         |                 |
| Voltage                          | 1P, 115 / 220Vac $\pm$ 5% (Adjustable)                              |   |                 |        |        |                 |        |        |  |         |                 |
| Frequency                        | 50Hz or 60Hz (Selectable Switch) , 400Hz (Option) $\pm$ 0.5%        |   |                 |        |        |                 |        |        |  |         |                 |
| Voltage Regulation               | $\pm$ 1%  |   |                 |        |        |                 |        |        |  |         |                 |
| Frequency Stability              | $\pm$ 0.5% (Free running)   |   |                 |        |        |                 |        |        |  |         |                 |
| Transient Response               | $\pm$ 3% (100% Load variation)                                      |   |                 |        |        |                 |        |        |  |         |                 |
| Waveform                         | Sine wave   |   |                 |        |        |                 |        |        |  |         |                 |
| Distortion                       | < 3% at 0-100%(Linear load)   |   |                 |        |        |                 |        |        |  |         |                 |
| Overload Capacity                | 105%: 30 sec, 150%: constant power                                  | 120-150%: 30 sec, >150%: constant power                                       |                 |        |        |                 |        |        | 120%: 30 sec, >150% constant power     |         |                 |
| Power Factor                     | 0.7-1, lag  |   |                 |        |        |                 |        |        |  |         |                 |
| Crest Ratio                      | 3:1   |   |                 |        |        |                 |        |        |  |         |                 |
| <b>EFFICIENCY</b>                |   |   |                 |        |        |                 |        |        |  |         |                 |
| AC to AC                         | >85%  |   |                 |        |        |                 |        |        |  |         |                 |
| <b>PROTECTION</b>                |   |   |                 |        |        |                 |        |        |  |         |                 |
| Overload                         | 105%: 30 sec  | 125%: 30 sec  |                 |        |        |                 |        |        |  |         |                 |
| Short Circuit                    | Current limited and cut-off and fuse and breaker                    |   |                 |        |        |                 |        |        |  |         |                 |
| EMI / EMC                        | EN50091-2, CE approved  |   |                 |        |        |                 |        |        |  |         |                 |
| <b>AUDIBLE ALARM</b>             |   |   |                 |        |        |                 |        |        |  |         |                 |
| Mains Failure                    | Sounding every four seconds after mains fail, 90 seconds mute       |   |                 |        |        |                 |        |        |  |         |                 |
| Optional Battery Low             | Sounding once every second as optional battery low level approaches | Sounding once every second as battery approaches                              |                 |        |        |                 |        |        |  |         |                 |
| Overload & UPS Fault             | Continuously  |   |                 |        |        |                 |        |        |  |         |                 |
| <b>INDICATOR</b>                 |   |   |                 |        |        |                 |        |        |  |         |                 |
| LCD                              | I/P&O/P voltage/ frequency  | I/P&O/P voltage/frequency, loading %, history record                          |                 |        |        |                 |        |        |  |         |                 |
| LED                              | I/P&O/P voltage/ frequency  | Utility LED (Green), inverter LED (Green), fault LED (Red), overload (Yellow) |                 |        |        |                 |        |        |  |         |                 |
| <b>INTERFACE</b>                 |   |   |                 |        |        |                 |        |        |  |         |                 |
| Contact Closure                  | Support MEGATEC RUPS UPS monitoring software                        |   |                 |        |        |                 |        |        |  |         |                 |
| RS-232                           | Support MEGATEC RUPSII / UPSilon 2000 monitoring software           |   |                 |        |        |                 |        |        |  |         |                 |
| <b>ENVIRONMENT</b>               |   |   |                 |        |        |                 |        |        |  |         |                 |
| Operation Temperature            | 0-40 °C(32-104 °F)  |   |                 |        |        |                 |        |        |  |         |                 |
| Relative Humidity                | 0-90% (non-condensing)  |   |                 |        |        |                 |        |        |  |         |                 |
| Audible Noise(At 1M)             | < 45dBA   |   |                 |        |        |                 |        |        |  |         |                 |
| <b>PHYSICAL</b>                  |   |   |                 |        |        |                 |        |        |  |         |                 |
| Dimension (mm) (WxHxD)           | 180 x 308 x 381   | 180 x 360 x 500 (400Hz) , 180 x 500 x 540 (50 or 60Hz)                        | 230 x 685 x 578 |        |        | 480 x 845 x 340 |        |        | 480 x 845 x 340                        |         | 480 x 885 x 380 |
| Net Weight (kg, without battery) | 20  | 30(400Hz);65 (50 or 60Hz) 6   | 60              | 66     | 69     | 94              | 115    | 116    | 116                                    | 120     | 200             |

\*Specification are subject to change without prior notice.

Spec.STD 25.05.21



**U PROTECT COMPANY LIMITED** | บริษัท ยูโพรเทค จำกัด

No. 5, Soi Suprapong 3 Yak 4, Srinakarin Road, Nhongbon, Praweth, BKK 10250.

Tel : 662-7433998 Fax : 662-7433997 Email : sales@u-pt.com, uprotect@u-pt.com

[www.u-pt.com](http://www.u-pt.com)

