



Enersine Pro
80A Modular
Active Power Filter



Ablerex Electronics Co., Ltd.
<http://www.ablerex.com.tw>

Key Features

- Modular and easy to extend
- **3 Level Technology**
- **Space-saving high power density design**
- **Hot-scalable power modules**
- **80A per module**
- **Up to 1920A for parallel operation**
- Apply to 3 Phase 3 Wires/4 Wires System
- Advanced DSP technology, programmable
- Close/Open Loop Control
- Compensate up to 51st harmonics
- Power Factor Correction
- Correct unbalance three phase utility
- No problem of overload
- **Advanced Operation Interface— 7"Colorful LCD Touch Screen**

Modular Design

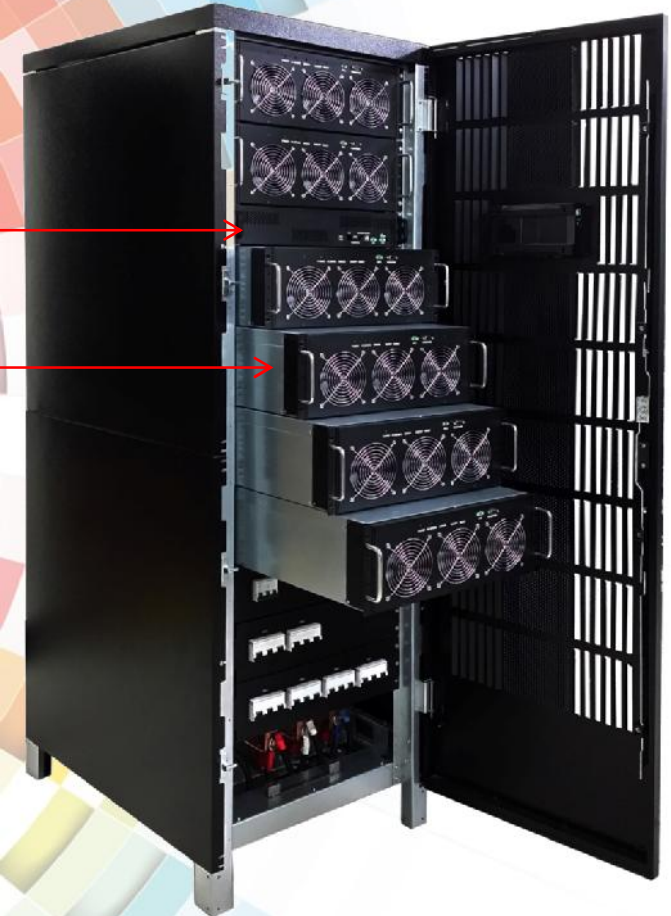
- ◆ **Control Module**
 - Each controller can manipulate 8 Power Modules.
 - 440mm x 630mm x 85mm (w x d x h)
- ◆ **Power Module**
 - 400V 80A
 - 440mm x 630mm x 176mm (w x d x h)
- Hot-scalable design
- Provides Hot-swappable Rack Rail Kit
- Easy to install in standard 19" rack cabinet

Rack Rail Kit



Control Module

Power Module



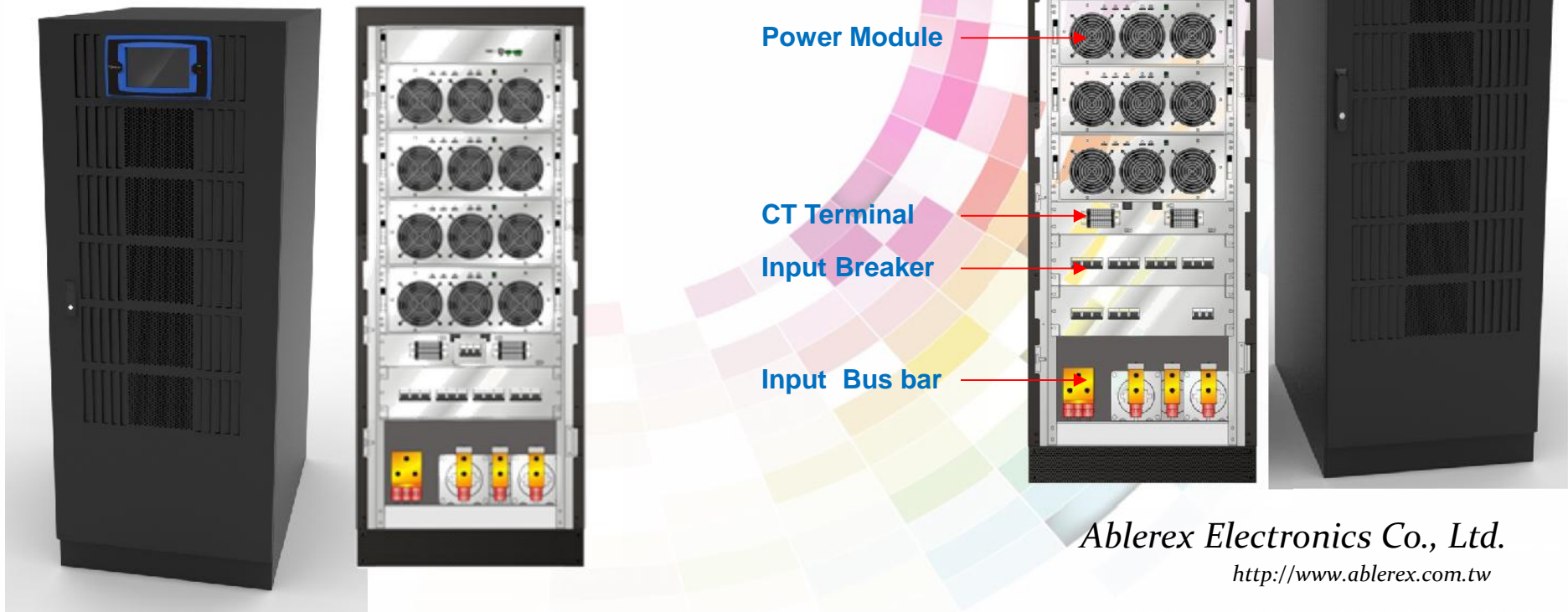
Frame

◆ Frame 1 :

- 600mm x 900mm x 1950mm (w x d x h)
- Install up to 6 Power Module, 480A

◆ Frame 2:

- 600mm x 900mm x 1500mm (w x d x h)
- Install up to 4 Power Module, 320A

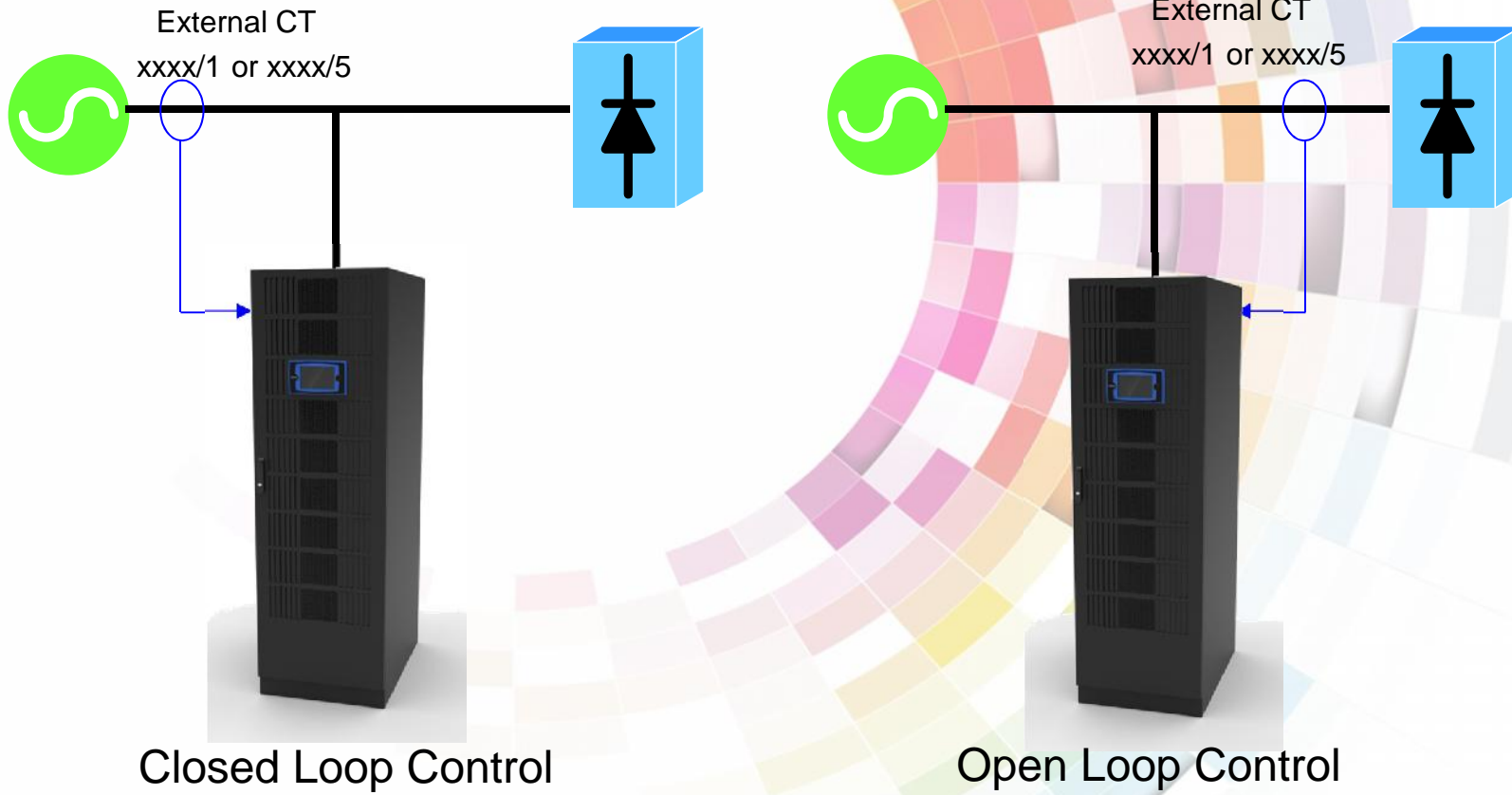


Advanced Operation Interface

- 7" LCD Touch Screen
- Easy Operation
- Display Voltage/Current waveform, parameter and spectrum
- Multiple Languages



Open/Closed Loop Control



Parallel

- Up to 24 Power Modules in Parallel
- The maximum capacity up to 1920A
- Only one LCD display is needed



Specifications

- General

Equipment Storage Temperature	-20°C to + 70°C
Operating Temperature	+0°C to +40°C without derating +40°C to +50°C derating operation
Relative Humidity	<95%
Operating Altitude	<1000 m without derating Up to 3000m
Reference Harmonic Standard	EN61000-3-4, IEEE 519-1992
Reference Design Standard	EN60146
Safety Standard	EN50178
Electromagnetic Compatibility	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6

Specifications

- Power Module

Input Voltage	400V +15%,-20%
Phase/Wires	3 phase 4 wires/3wires
Frequency	50/60±3 Hz
Rating Current of Each Phase	80 Arms
Rating Current of Neutral	240 Arms
Inrush Current	Less than rated current
Current Limitation	Yes, at full correcting
Maximum Heat losses	1660 Watt
Protection Index	IP20
Dimensions (WxDxH)	440 x 630 x 176mm
Weight	43 Kg

Specifications

● Control Module

Input Voltage	400V +15%,-20%
Phase/Wires	3 phase 4 wires/3wires
Frequency	50/60±3 Hz (Auto Sensing)
Compensated Harmonic Orders	From 2nd to 51st order
Power Factor Correction	Power factor can be programmed from 0.6 lagging to 0.6 leading
Load Balancing	Both phase to phase and phase to neutral
CT Ratio	Primary Current: 100A~10000A Secondary Current: 1A/5A
CT Location	Source Side: Closed Loop Control Load Side: Open Loop Control
Response Time	< 20 ms
Number of controllable Power Module	Up to 8 Power Modules.
Parallel	Up to 4 Control Modules.
Maximum Heat losses	50 Watt
Protection Index	IP20
Dimensions (WxDxH)	440 x 630 x 86 mm
Weight	10 Kg

Specifications

- HMI & Communication

Display	7" LCD Touch Screen
Dry Contact (Standard)	3 Output Dry Contacts 1 Input Dry Contact 1 EPO
Communication	USB, RS485 Modbus RTU, Ethernet Card
Programming	Setting by LCD Panel, Software
Software	<i>ESD-Link34</i> Monitoring Software (Option) <i>Enersine ESD34 Expert Service Program</i>
Communication Protocol	J-Bus / Mod Bus



Specifications

- Enclosure



Dimensions (WxDxH)	600 x 900 x 1950 mm	600 x 900 x 1500 mm
Max. Power Module	Up to 6 Power Modules. 480A	Up to 4 Power Modules. 320A
Weight (w/o Modules)	195 Kg	150 Kg
Protection Index	IP21	





Let's Create a Powerful Future

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