

Enersine Active Power Filter

ESD34 400V 100A/150A Power Module





Feature

- Apply to 3 Phase 3 Wires/4 Wires System
- Advanced DSP technology, programmable
- Close/Open Loop Control
- Compensate up to 51st harmonics
- Compensate up to 12 different harmonics simultaneously
- Power Factor Correction
- Correct unbalance three phase utility
- No problem of overload
- Shunt connection, easy for maintenance



Feature

- Two power rating 400V 100A & 150A
- IP00 Design
- Compact size design
- Easy to install to smaller cabinet.
- 7" Colorful LCD Touch Screen
- One LCD Display Monitor and Control up to 8 Modules in parallel



Configuration



- ① Main Fuse
- 2 Soft-start Electromagnetic Contactor Module
- ③ Link Inductor
- Ripple Current Filter Module
- S High Frequency Inductor
- 6 IGBT Power Converter Module
- ⑦ DC Capacitor Module







IP20 Cabinet





Parallel

- Up to 8 Modules in Parallel.
- The Maximum Capacity Up to 1200A.
- Only One LCD Display is needed.





7" Colorful LCD Touch Screen





Specification

Equipment Storage Temperature	-20°C to + 70°C	
Operating Temperature	+0°C to +40°C	
Relative Humidity	<95%	
Operating Altitude	<1000 m	
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	



Specification

Model		ESD34-100	ESD34-150
Input Voltage		400V +15%,-20%	
Phase/Wires		3 phase 4 wires/3wires	
Frequency		50/60±3 Hz (Auto Sensing)	
Maximum Compensation Current/Phase		100 Arms	150 Arms
Maximum Compensation Current of Neutral		300 Arms	450 Arms
Compensated Harmonic Orders		From 2 nd to 51 st order. Up to 12 orders actives simultaneously (2 nd ~31 st). Higher Order Compensation (32 nd ~51 st) Disable/Enable operation.	
Power Factor Correction		Compensate both lagging and leading reactive power.	
		Power factor can be programmed from 0.7 lagging to 0.7 leading	
CT Ratio		Can be set. Primary Current: 100A~10000A Secondary Current: 1A(Standard)/5A (Optional)	
CT Location		Source Side: Close Loop Control Load Side: Open Loop Control	
Response Time		< 20 ms	
Inrush Current		Less than rated current	
Current Limitation		Yes, at full correcting	
Parallel		Up to 8 Units	
Maximum Heat losses		3200 Watt	
Dimensions (WxDxH)	IP00	440 x 441 x 1500 mm	
	IP20	600 x 600 x 1900 mm	
Weight	IP00	110 Kgs	120 Kgs
	IP20	195 Kgs	205 Kgs



Let's Create a Powerful Future