

Code stock: 300693

SINEXCEL

Sinexcel | E Series

Active Harmonic Filter-AHF



Wide voltage/frequency operating range ensures stability
Compact size with large capacity

Sinexcel E Series AHF Specification



Items		Sinexcel E Series AHF		
Rating		35/50A	75/100A	150A
Function		Harmonic, reactive power and three-phase unbalance compensation		
System parameters				
Nominal voltage		220V (176V~264V,-10%~20%); 400V (228V~456V,-40%~20%); 480V (384V~528V,-20%~10%)		
Nominal frequency		50/60Hz, Auto sensing (Range : 45Hz~62.5Hz)		
Parallel quantities		Unlimited		
Efficiency		97%		
Connection type		3 Phase 3 Wire / 3 Phase 4 Wire (480V only support 3 Phase 3 Wire)		
CT location		Load / Supply side, close loop sampling		
Performance indicators				
Control algorithm		FFT, intelligent FFT, and instantaneous reactive power		
Compensation Order		2nd to 50th		
Compensation rate		> 95%		
Fast response Time		< 50us		
Full response Time		< 15ms		
Target power factor		Adjustable from -1 to +1		
Switching frequency		Average 24kHz		Average 18kHz
Cooling air requirement		113L/Sec	150L/Sec	
Noise level		< 60dB		< 65dB
Communications ports		RS485 and Ethernet port (option)		
Communications protocols		Modbus RTU, TCP/IP		
Module display interface		4.3-inch HMI(module), 7-inch HMI(central monitor) and LED		
Protection functions		Over-voltage protection, under-voltage protection, inverter bridge inverse protection, over-compensation protection and so on		
Mounting type		Wall-mounted, Rack-mounted and Cabinet		
"Dimensions (W x D x H mm)"	RE	350*465*88	500*500*88	500*520*100
	HL	350*100*465	500*91*500	500*103*520
Net weight		14kg	18kg	28kg
Storage temperature		-40 C ~ 70 C		
Operating Ambient temperature		-10 C ~ 50 C (will derate capacity if ambient temperature exceed 40%)		
Relative humidity		5% to 95%, non-condensing		
Altitude		≤1500m, 1500-4000m, capacity is derating 1% for every 100m altitude increased.		
Protection class		IP20 (IP grade can be customizable)		