



Items	Sinexcel Ultra Series AHF					
Rating	25/35A	50/60A	75A	100A	150A	300A
Function	Harmonic, reactive power and three-phase unbalance compensation					
System parameters						
Nominal voltage	380/400/415V (228-456V)					
L-N voltage	220/230/240V (132-264V)					
Nominal frequency	50/60Hz, auto sensing / Range: 45Hz~62.5Hz					
Parallel quantities	Unlimited					
Efficiency	99%				98.5%	
Connection type	3 Phase 3 Wire / 3 Phase 4 Wire					
CT location	Load / Supply side					
Performance indicators						
Control algorithm	FFT, intelligent FFT, and instantaneous reactive power					
Compensation Order	2nd to 7th, selectable for each order, amplitude adjustment					
Advanced control algorithm	Resonance suppression, compensation performance software auto-tuning, no CT correction for THDs compensation					
Compensation rate	> 97%					
Even harmonic compensation rate	> 97%				> 95%	
Zero-Sequence compensation rate	3 times capacity compensated, ~97%					
Fast response Time	< 50ms					
Full response Time	< 5ms					
Target power factor	Adjustable from -1 to +1					
Switching frequency	Average: 8kHz up to 95kHz					
Cooling air requirement	180CFM	165CFM	240CFM	480CFM		
Noise level	<60dB (Full load)	<60dB (Full load)	<65dB (Full load)	<68dB (Full load)		
Communications ports	RS485 and Ethernet port(RJ45)					
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				Wall-mounted and Rack-mounted	
Dimensions (W x D x H mm)	500*470*88	500*520*88	500*520*100	500*640*220		
Net weight	24kg	25kg	23kg	63kg		
Storage temperature	-40°C~70°C					
Operating Ambient temperature	-10°C~40°C (may derate capacity if ambient temperature exceeds 40°C)					
Relative humidity	5% to 95%, non-condensing					
Altitude	≤1500m, 1500-4000m, capacity is derating 1% for every 100m altitude increased.					
protection class	IP20 (IP degree can be customizable)					
Qualifications	CE (400V type AHF), ETL (Compatible 380-480V type AHF)				CE (400V type AHF)	