

Items	Sinexcel Ultra Series AHF	
Rating	100A	150A
Function	Harmonic, reactive power and three-phase unbalance compensation	
System parameters		
Nominal voltage	480V (384-528V)	
Nominal frequency	50/60Hz, auto sensing (Range : 45Hz~62.5Hz)	
Parallel quantities	Unlimited	
Efficiency	99%	
Connection type	3 Phase 3 Wire	
CT location	Load / Supply side	
Performance indicators		
Control algorithm	FFT, intelligent FFT, and instantaneous reactive power	
Compensation Order	2nd to 50th, selectable for each order, amplitude adjustment	
Advanced control algorithm	Resonance suppression, compensation performance software auto-tuning, no CT connection for THDu compensation	
Compensation rate	> 97%	
Even harmonic compensation rate	> 97%	
Zero-Sequence compensation rate	3 times capacity compensated, >97%.	
Fast response Time	< 50us	
Full response Time	< 5ms	
Target power factor	Adjustable from -1 to +1	
Switching frequency	Average 40kHz, up to 90kHz	
Cooling air requirement	55CFM*3	80CFM*3
Noise level	<60dB (Full load)	<65dB (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	
Dimensions (W x D x H mm)	500*520*88	500*520*100
Net weight	18kg	25kg
Storage temperature	-40℃~70℃	
Operating Ambient temperature	-20℃~45℃ (may derate capacity if ambient temperature exceeds 45℃)	
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 is customizable)	
Qualifications	ETL (Compatible 380~480V type AHF)	
Standards Compliance	IEEE519, ER G5/4 and IEC 61000	