FPU Series Active Power Filter





Excellent filtering performance

Simultaneously filter out 2 ~ 50 harmonics; Odd-even comprehensive control; Arbitrary single harmonic ratio setting.



Flexible application solution

Modular design, lightweight wall-mounted, custom plug-in type; Any combination of various capacity modules, up to 10 modules can be connected in paralle;

The CT can be flexibly installed on the power supply side or the load side.



High quality of core devices

Infineon IGBT imported from Germany, advanced three-level technology;
American TI's high-end industrial control chip (28377),

dual-core 32CPU + 2CLA, clocked at 200MHz.



Complete equipment and system protection

External electrical fault protection of the equipment; Equipment internal fault protection, overcurrent protection,

IGBT overheating protection etc.;
Automatic derating when the working environment exceeds



Fully featured

Multiple compensation modes, active filtering, reactive power compensation, unbalanced current compensation Full range stepless compensation of reactive power; Complete three-phase unbalance compensation strategy, realizing active / reactive / phase unbalance compensation.



User friendly interface

Through the graphical display interface, users can clearly understand the power quality improvement of the system before and after the compensation, such as the system waveform diagram, harmonic spectrum diagram, THDi, THDu, current RMS value and power factor.

Product specification	30A	50A	75A	100A	cabinet type	
System parameter						
Grid voltage 400V/690V (-40%,+20%)						
Rated frequency			50/60±5%Hz			
Wiring system		Three-phase three-wire/Three-phase four-wire				
Circuit topology		Three-level				
Performance index						
Rated current	30A	50A	75A	100A	0~500A	
Compensation mode	Impler	menting Harmonics,	reactive power ,Any o	combination of imba	ance compensation	
Harmonic compensation	capability	2 ~ 50th harmoni	c compensation, elim	inate all or selected	harmonics	
Harmonic order setting		Individual setting of each harmonic				
Harmonic compensation efficiency		Greater than 97%				
Reactive power compensation		Capacitive full range reactive power compensation				
Three-phase unbalance compensation		Have				
Full response time		≤5ms				
Machine efficiency		>97%				
Parallel operation capabil	lity	Supports up to 10 modules in parallel				
CT parameters		Primary side current 100 \sim 10000A, secondary current 5A (1A optional)				
CT position		Load side or power side				
Protection method Grid over and under voltage, grid over and under frequency, input voltage reverse over current, over heat, overload automatic current limit protection, bus short circ						
cooling method			Intelligent air cooling, automatic adjustment of air volume according to heat dissipation conditions and load			
noise			≤65dB			
Communication						
Protocol		Modbus protocol				
Communication Interfac		RS485/RS232 /Ethernet(optional)				
Monitoring module			2.8 Inch LCD screen		8 Inch LCD touch screen monitoring components	
Display content Real-		-time running information such as voltage, current, frequency, power factor, waveform curve, parameter setting, record query,etc.				
Mechanical properties						
Prating			IP20 (others can be customized)			
Dimension		refer	to mechanical chara	cteristics for details	Specific reference Cabinet capacity	
Weight		refer	to mechanical chara	cteristics for details		
Color			RAL7035			
Environmental requirement	ts					
Operating temperature			-25°C~+50°C,derating above 40 °C			
Relative humidity		5%~95%,no frost				
Relative humidity		2000m, exceeding derating operation				
Related standard						