



**Features:**

- 3 CT Sensing
- LCD Type with dual colour backlight
- Supports Intelligent Algorithm
- Automatically switches between various capacitive bank
- 08 / 12 / 14 steps
- Configurable Alarm Settings
- Alarm Indication on Display
- Programmable fan control
- ModBus - RTU communication (only for 12 Relay option)
- Dual Password Protection

Size: 144mm x 144mm x 50mm

**Technical Specifications**

**Display**

Type	LCD with dual colour backlight
Digit	3 line 4 digit to show electrical parameters

**Input Specifications**

Rated Input Voltage	11 to 300V AC (L-N) 50 to 520V AC (L-L)
Rated Input Current	Nominal 5A AC (Min- 11mA, Max – 6A)
Frequency	45 - 65Hz
Burden	20 mΩ
Wiring input	3 Phase 4 Wire / 3 Phase 3 Wire / 2 Phase 2 Wire / 1 Phase 2 Wire
Accuracy	Voltage (L-N/L-L), Current: ±0.5% of full range Frequency: ±0.1% of full range Power (kW, kVA, kVA <sub>r</sub> ): ±1% of full range Energy (kWh, kVA <sub>r</sub> h, kVAh): ±1% of full range
Resolution	For Energy: 0.01k,0.1k, 1k,0.01M, 0.1M, 1M For Power Factor: 0.01 For Voltage, Current, Power: Auto resolution
Display scrolling	Auto/ Manual/ Default (Programmable) Scrolling Time: 5Sec
Measurements	Power Factor, Power (kW, kVA, kVA <sub>r</sub> ), Energy (kWh, kVA <sub>r</sub> h, kVAh), Phase voltage and Phase current, Frequency, Temperature, Up to 31 <sup>st</sup> order Harmonics measurement

**Measurement Range**

Power Factor 0.8 lag - 0.8 lead

**Alarm Indications**

Over Voltage	250 - 290V (L-N) 490 - 520V (L-L)
Under Voltage	195 - 210V (L-N) 400 - 415V (L-L)
Under Compensate	ON/OFF
Over Compensate	ON/OFF
CT Polarity Error	ON/OFF
Step Error	20 - 80 % or OFF
Over Temperature	0 - 100°C or ON or OFF
No Voltage	ON / OFF

**Resettable Parameters**

CT Primary	1A/5A Up to 9999A (Programmable for any value)
CT Secondary	1/5A (Programmable for any value)
PT Primary	100V to 500kV (Programmable for any value)
PT Secondary	100 V - 500V (Programmable for any value)

**Output Specifications**

Output Contacts	NO, One common point Max fuse 6A
Steps	3 to 08/12/14*
Relay Contact	5A@250V AC <b>Note*</b> : When 14 relay option selected, fan & alarm relay will be used to control PF (only available in 12 relay option)

**Communication**

Communication Interface	RS485 & Modbus RTU (Only for 12 Relay option)
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**Auxiliary Supply**

Input voltage range	90 - 550V AC
Consumption	15VA Max.
Frequency	50 - 60 Hz

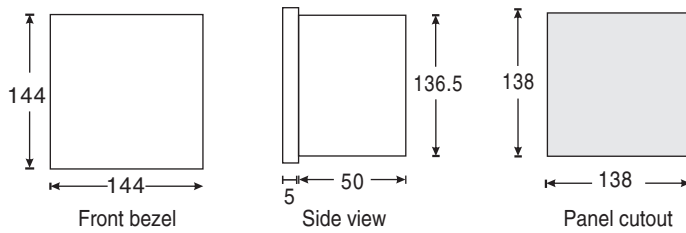
**Control Specification**

Target PF	0.8 lag - 0.8 lead
Switching program	Automatic / Linear / Rotational
Control Sensitivity	55 to 100%
Step Time	5 to 240 sec
Discharge Time	5 to 9999 sec
Switching Program	Automatic / Linear / Rotational
Control Mode	Automatic / Manual
Auto initialization	Yes / No

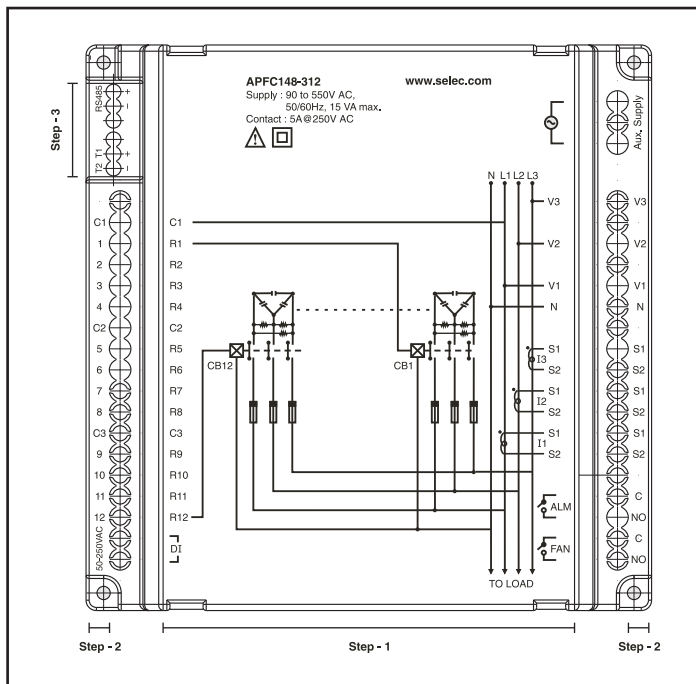
### Mechanical Specifications

Mounting	Panel mount
Weight	APFC148-308 : 450gms APFC148-312 : 460gms

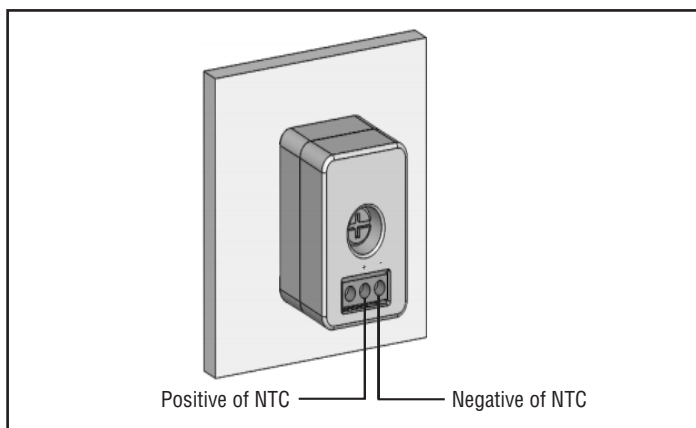
### Dimensions



### Terminal Connections



### NTC Temperature Sensor



### Ordering Information

Product Code	Supply Voltage	No. of stages
APFC148-308-90/550V	90 - 550V AC, 50/60HZ	8
APFC148-312-90/550V	90 - 550V AC, 50/60HZ	12