PRODUCT PROFILE



96 x 96mm

SPECIFICATIONS

Display : Liquid crystal display with backlight

4 digits to show electrical parameters.

Wiring input : 2ø-2 wire (L2-L3) : 50 to 520 V AC (L-L) Rated input voltage

Rated input current : Nominal 5A AC (min 50mA, max 6A)

Frequency Range : 45-65Hz Power Consumption : 7VA MAX

Controlling Range : Target PF : -0.800 to 0.800

Switching Program · Automatic

Alarm : CURR : Phase Current error

: No Voltage Alarm

Environmental Conditions: Outdoor use

Temperature : Operating : 0°C to 60°C

Storage : -20°C to 60°C

Humidity: 0% to 95% without moisture consideration

Mounting : Panel Mounting : 263 gms. Weight

No Voltage Indication : [Symbol Turns ON

ORDER CODE INFORMATION

PRODUCT	SUPPLY	C€	NO. OF STAGES
APFC346-108-230V-CE	85-270V AC, 50/60Hz		08

ACCURACY

Measurement	Accuracy	
Power Factor	±0.01	

EMC GUIDELINES

- 1. Use proper input power cables with shortest connections and twisted type.
- 2. Layout of connecting cables shall be away from any internal EMI source.

SAFETY PRECAUTIONS

All safety related codification, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not handled in a manner specified by the manufacturer, it might impair the protection provided by the equipment.

CAUTION: Read Complete instruction prior to installation and operation

of the unit.

WARNING : Risk of electric shock.

M WIRING GUIDELINES

- 1. To prevent the risk of electric shock, power supply to the equipment must be kept OFF while doing the wiring arrangement. Do not touch the terminals while power is being supplied.
- Wiring shall be done strictly according to the terminal layout. Confirm that all connections are correct.
- 3. Use pin type lugged terminals.
- 4. To eliminate electromagnetic interference, use wires with adequate ratings and twists of the same in equal size shall be made.
- Cables used for connection to power source, must have a cross section of 1.5mm². These wires shall have current carrying capacity of 5A.

■ MAINTENANCE

- 1. The equipment should be cleaned regularly to avoid blockage of ventilating Parts
- 2. Clean the equipment with a clean soft cloth. Do not use Isopropyl alcohol or any other cleaning agent.

INSTALLATION GUIDELINES

A CAUTION

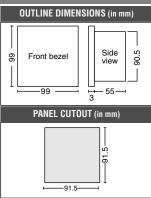
- 1. This equipment, being buit-in type, normally becomes a part of main control panel and in such case the terminals do not remain accessible to the user end after installation and internal wiring.
- 2. Conductors must not come in contact with the internal circuitry of the equipment or else it may lead to a safety hazard that may in turn endanger life or cause electrical shock to the operator.
- 3. Before disconnecting the secondary of the external current transformer from the equipment, make sure that the current transformer is short circuited to avoid risk of electrical shock and injury.
- The equipment shall not be installed in environmental condition other than those mentioned in this manual.
- Thermal dissipation of equipment is met through ventilation holes provided on chasis of equipment. Such ventilation holes shall not be obstructed else it can lead to a safety hazard.
- 6. Connector screw must be tightened after installation.

MECHANICAL INSTALLATION / DIMENSIONS

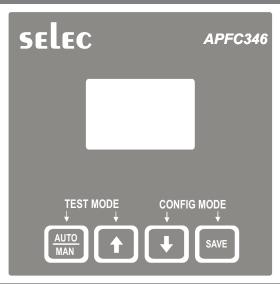
- 1. Prepare panel cut out with proper dimensions as shown in the figure.
- 2. Push the meter into the panel cutout. Secure the meter in its place by pushing the clamp on the rear side. The screw of the panel clamp must be in the farthest forward slot.
- 3. For proper sealing tighten the screw evenly with required torque.

A CAUTION The equipment in its installed state

must not come in close proximity to any heating sources, caustic vapors, oils, steam or other unwanted process by product.



FRONT PANEL DESCRIPTION



KEY DESCRIPTION		
Press + SAVE	For 5 sec. to enter or exit from the configuration menu.	
Press	For increment configuration parameter & their value.	
Press	For decrement configuration parameter & their value.	
Press SAVE	To save the setting and go to next page.	
Press AUTO MAN	To go previous page in configuration menu. For 3 sec. to toggle Control mode(AUTO/MANL).	
Press AUTO + 1	For 5 sec to enter in Test Mode.Test mode checks all the relays present in product sequentially.	

Note: The settings should be done by professional after going through this operating manual.

SERIAL NUMBER DESCRIPTION

Press SAVE Key for 5 sec to display 8 digit serial number

Example : Sr. No. 12345678			
Press	Display 1234 for 1sec.		
Key for 5 sec	After 1 sec displays 5678 for 1 sec.		

AUTO / MANUAL MODE DESCRIPTION

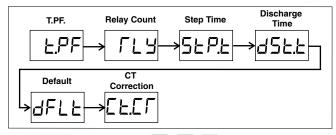
Press AUTO | Key for 3 sec to change control mode(Auto/Manual).

Press key to turn ON relay one by one in manual mode.

Press key to turn OFF relay one by one in manual mode.

CONFIGURATION MENU

Press + SAVE keys for 5 sec. to Enter or Exit from Configuration menu.



There are 4 dedicated keys AUTO MAN to scroll through configuration menu

CONFIGURATION MENU

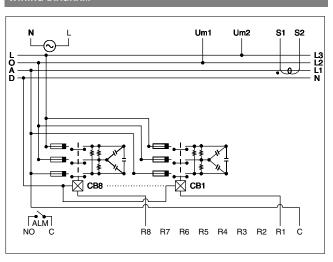
Parameter	Display	Range	Default Value
Target PF	T. PF	-0.800 to 0.800	1.000
Relay count	RLY	1 - 8	8
Step time	STP.T	1s-999s	15s
Discharge Time	DIS.T	1s-999s	40s
Default	DFLT	YES/NO	NO
CT Correction	CT.CR	ON/OFF	ON

CT.CR: CT CORRECTION (Automatic S1,S2 reversal correction) If all the connections are correct, still the PF doesn't match with electricity board meter, turn CT correction (i.e. CT.CR) OFF by entering into configuration menu and restart the unit.

USER GUIDE

- a) Manual switching (MANL): When this switching program is selected, the capacitor steps are controlled manually by the user.
- b) Automatic switching (AUTO): This automatic switching program uses intelligent switching sequence. The step switching sequence is not fixed and the program automatically selects the most appropriate steps to switch in or out in order to ahieve shortest reaction time with minimum number of steps.

WIRING DIAGRAM



(Specifications are subject to change, since development is a continuous process.)

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Doc. name : OP INST APFC346 OP867-V02(Page 2 of 2)