

SERIAL NUMBER DESCRIPTION

Press ESC (esc) key for 10 sec. to display 8 digit serial number.

Example : Sr. No. 12345678

Press ESC (esc) key for 10sec.	Displays 1234 for 3 sec. After 3 sec. displays 5678 for 3 sec.
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NOTE :

- Auto - Initialization (A.INT) is working at best, under stable load conditions.
- Auto - Initialization (A.INT) works only with capacitor banks and not with reactors.
- A.INT will be update to 'NO' automatically in configue after auto initialization.
- Reauto - Initialization will be done by only changing A.INT - Yes in configue manually.
- Recommended that number of relays not to be changed during normal operation.
- If done so, restart the unit.
- When condition of low current occurs, the display of controller will show the 'CURR'.

USER GUIDE

A) Automatic switching (AUTO)

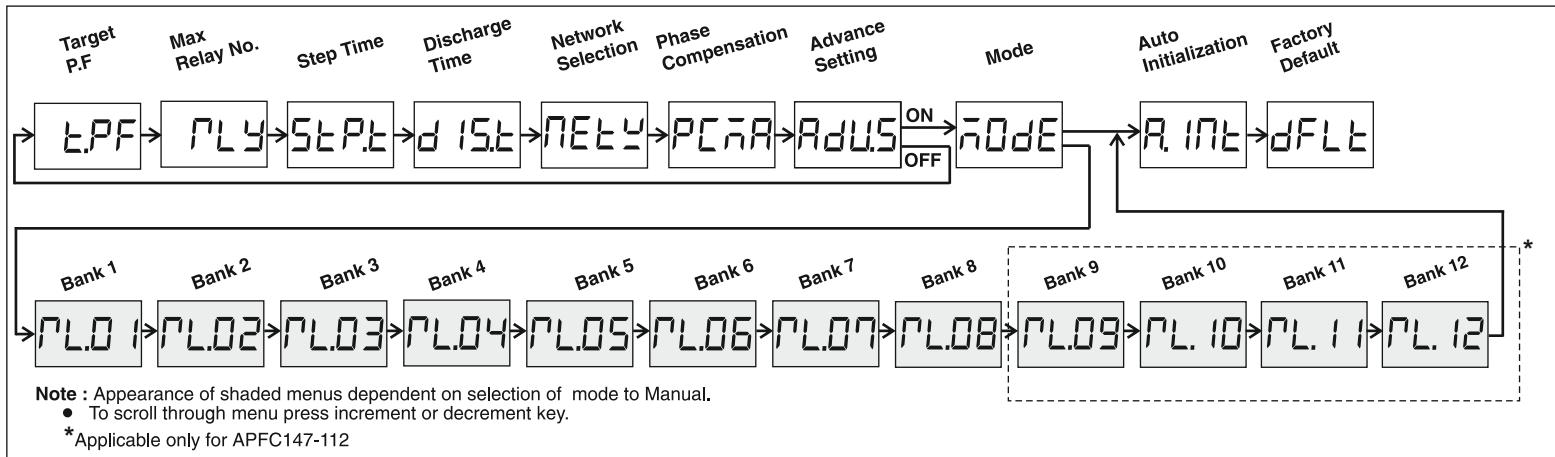
This automatic switching program uses intelligent switching sequence. The step switching sequence is not fixed and the program automatically selects the most appropriate steps to switch in or out in order to achieve shortest reaction time with minimum number of steps.

B) Manual switching (MANL)

When this switching program is selected, the capacitor steps are controlled manually by the user by entering in configuration menu.

CONFIGURATION MENU

PRESS 🔍 + 🔍 KEYS for 3 sec. to enter or exit from configuration menu.



CONFIGURATION TABLE

Parameter	Display	Range	Default Value	Condition
Target P. F	T. PF	-0.800 to 0.800	1.000	-
Max Relay Numbers	RLY	1 to 8/12*	8/12 *	-
STEP TIME	STP.T	1s to 999s	15s	-
Discharge time (Reconnection time)	DIS.T	1s to 999s	40s	-
Network Selection	NETW	1P2W/ 2P2W	2P2W	-
Phase Compensation	PCMA	0°, 90°, 120°, 210°, 240°, 330°	90°	-
Advance Settings	ADV.S	ON/OFF	OFF	-
Control Mode	MODE	AUTO/ MANL	Auto	-
Relay 1	RL.01	ON/OFF	OFF	Prompted only if control mode is set to manual
Relay 2	RL.02	ON/OFF	OFF	
Relay 3	RL.03	ON/OFF	OFF	
Relay 4	RL.04	ON/OFF	OFF	
Relay 5	RL.05	ON/OFF	OFF	
Relay 6	RL.06	ON/OFF	OFF	
Relay 7	RL.07	ON/OFF	OFF	
Relay8	RL.08	ON/OFF	OFF	
* Relay 9	RL.09	ON/OFF	OFF	
* Relay 10	RL.10	ON/OFF	OFF	
* Relay 11	RL.11	ON/OFF	OFF	
* Relay12	RL.12	ON/OFF	OFF	
Auto Initialization	A.INT	NO/YES	YES	-
Factory Default	DFLT	NO/YES	NO	-

*Applicable only for APFC147-112

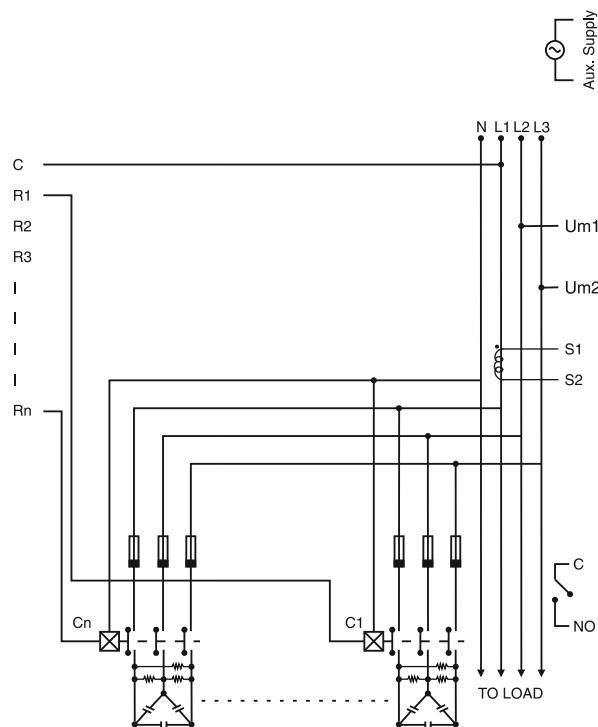
FIXED PARAMETER SETTING

Parameter	Default Value	Status
Over Compensation	-	ON
Under Compensation	-	ON
Low Current	Less than 50mA	ON
CT Primary	5A	-
CT secondary	5A	-
C/K Setting	60%	-
Nominal voltage	VLL : 415V VLN : 240V	-
Hysteresis Power Factor	1%	-

TRIP TIME

Parameter	Display	Activate	Deactivate	Action to be taken by APFC
No Voltage	N.VLT	3sec	Instantaneous	Disconnect All Steps
Over Compensation	O.CMP			-
Under Compensation	U.CMP			-
CT Polarity Error	CTER			-

WIRING DIAGRAM



Where,

- Um1 & Um2 - Input Voltage of Phase or phase to Phase
- S1 & S2 - CT Input
- R1... Rn - Relay to switch capacitor
- C1... Cn - Capacitor banks
- n - 8 for APFC147-108
12 for APFC147-112
- C - Relay COM
- NO - Normally Open

PHASE-ANGLE SETTING

Voltage	L1-N	L2-N	L3-N	L1-N	L2-N	L3-N	L1-N	L2-N	L3-N
CT	L1	L2	L3	L2	L3	L1	L3	L1	L2
Phase-Angle	0°	0°	0°	240°	240°	240°	120°	120°	120°
Voltage	L2-L3	L3-L1	L1-L2	L2-L3	L3-L1	L1-L2	L2-L3	L3-L1	L1-L2
CT	L1	L2	L3	L2	L3	L1	L3	L1	L2
Phase-Angle	90°	90°	90°	330°	330°	330°	210°	210°	210°

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

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