Tech Tips

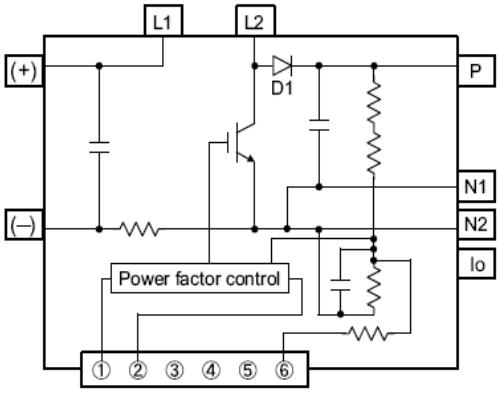
Halcyon
THE POWER TO CALM THE WIND

The Active Filter Module on inverters units is a PCB that will filter the harmonic current and its output is supplied to the IPM PCB.

If the unit has been installed and operating normally, but suddenly shows an error code of TWO GREEN blinks (Communication error) after a power outage or thunderstorm, you may suspect the ACTPM. Although your first reaction may be to replace it, below is a simple way to test it with an ohm meter and determine if it needs replacement. “Remember to remove power and wait five minutes before unplugging the PCB for testing”.

Check Point 1 : Check Open or Short-circuit and Diode (D1)

Remove connector, check the open or short-circuit and the diode in the module



Check the open or short-circuit

Tester (+)	Tester (-)		
(+)	(-)	360 kΩ	+/- 20%
(-)	N1	0	
P	(+)	720 kΩ	+/- 20%
L1	L2	500 kΩ or above	
P	N1	360 KΩ	+/- 20%
L1,L2	Control Box	∞	
L2	N2	800 kΩ or above	

Check the diode

Terminal		Resistance Value	
Tester (+)	Tester (-)		
L2	P	500 kΩ or above	
P	L2	500 kΩ or above	

>> If it is abnormal,replace ACTIVE FILTER MODULE

If error codes shows pointing at the ACTPM PCB:

Check the Output DC voltage (between P and N1) of compressor stopping and operating.

If the output voltage while compressor is operating is less than the output voltage while compressor is stopped, Active Filter Module is detective. Error condition other than the TWO GREEN blinks mentioned above will show.