



**TMB-HV220
HARDWIRED**

APPLIANCE PROTECTOR

FOR HEAVY DUTY REFRIGERATORS & A/C's

More than a Surge Protector

- 268 Joules Surge Suppressor
- High-Low Dangerous Voltage Detector
- 90 Sec. Delay Reconnector



220V, 50-60 Hz



UP TO 36000 BTU - 6 KVA



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TECHNICAL SPECIFICATIONS				
VOLTAGE	MIN CUT OFF VOLTAGE	MAX CUT OFF VOLTAGE	SECURITY CYCLE (DELAY)	POWER
220 VAC	195 VAC	255 VAC	90 SEC	36000 BTU

220 VAC, 50-60 Hz



Best for: **Refrigerators • Freezers • Air Conditioners**

- Red: OUT OF RANGE
- Yellow: DELAY
- Green: NORMAL

Installation:

All **TECHNO MUNDO BACKUPS Appliance Protectors** are easy to install. However, we recommend that this unit be installed by specialized and certified electrician.

1. Verify that your appliance power requirement is less or equal than **6KVA** for refrigerators or **36000 BTU** for A/Cs. This specification can be found on the appliance's manufacturer label.
2. Attach the protector to the wall using the lateral holes and proper screws and raw-plugs.

3. This protector is for **hardwired** connection:

L_{o1} = Output Phase 1 **L_{o2}** = Output Phase 2

L_{i1} = Input Phase 1 **L_{i2}** = Input Phase 2

GND = Ground

Connect the 220 or 240 VAC input between **L_{i1}** and **L_{i2}** and the input ground cable to **GND**. Be sure that you are using AWG #10 color coded wiring and that the breaker that supplies power to those cables is OFF. Then, connect the appliance between **L_{o1}** and **L_{o2}** and the ground cable of the load to the same **GND** connector. Now, turn the panel breaker ON then surge protector will turn ON automatically.

4. The light will lit in yellow color indicating the delay time (90 sec.) condition. Then this light will switch to green to indicate that input AC power is "OK" for your appliance. Verify that your appliance is ON. Your appliance is now protected against spikes (surges), extreme input AC voltage variations and multiple input voltage interruptions.

Operation:

In a complete power failure, the protector will turn off and no light will be lit. If a high voltage (greater than 255V) is experienced, the red "Out of Range" will come ON. Deep low voltage (less than 195V) will cause the same behavior of the unit. When the voltage returns to normal condition, the "Out of Range" light will be turned off and the light will remain yellow for 90 sec. more (delay) to avoid the dangerous effect of a possible multiple input voltage interruptions over the motor of the compressor. Then, the light will switch to green giving protected power to the appliance. High energy spikes are suppressed by the protector so that the electronic control parts of your appliance will not be damage.

**268
Joules**
Surge Suppressor

**DELAY TIME
90 SEC.
RECONNECTION**

**36
kBTU**



Manufactured in China
upon **TECHNO MUNDO BACKUPS**
Design & Specifications

