Mode	Status	Low Input LED/ 15 sec LED	Normal LED/ 30 sec LED	High Input LED/ 3 min LED
OFF Mode	Voltage Protector is OFF, AC power connected	LED is flashing	LED is flashing	LED is flashing
	Voltage Protector is OFF, AC power disconnected	LED is OFF	LED is OFF	LED is OFF

6 RECOMMENDED USES

15 sec Delay	30 sec Delay	3 min Delay
Electric Range	Freezer	Air Conditioner
Domestic Refrigerator	Commercial Refrigerator	Portable Air Conditioner
Water Cooler	Ice Maker	Split Air Conditioner
Multifunction Printer		
Electric Dryer		

7 SPECIFICATIONS

Nominal Voltage	**220/230/240Vac**
Max. Current	20 Amp
Frequency	50Hz or 60Hz
Input Plug Type	Nema 6-15P or Nema 6-20P
Output Socket Type	Nema 6-20R*1pc
Spike Protection	900 Joules
Delay Timer	15 sec / 30 sec / 3 min
Input Line Low Loss	180Vac (@220Vac)
Input Line Low Comeback	190Vac (@220Vac)
Input Line High Loss	265Vac (@220Vac)
Input Line High Comeback	260Vac (@220Vac)

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USER'S MANUAL

This manual provides safety, installation and operation instructions which will guide you to the best performance of your equipment. Please read and keep this manual.

701-0071771 VP-AplusB-I620-E-01

1 INTRODUCTION

OVERVIEW

The Product is a Voltage Protector, prevents damages to refrigeration loads or air conditioner from power fluctuation, especially over and under voltage levels of long duration. The 15 sec / 30 sec / 3 min delay reconnection provides protection against power-back surge commonly experienced after resumption of power in a power cut situation. Build-in MOV excess electricity for additional protection. The Product will automatically guard refrigeration loads or air conditioner against brownouts or transient spikes induced by lighting or power line failure.

FEATURES

- Microprocessor Controlled Design
- Absorbs Excess Electricity through MOVs
- Surge Suppression 900 Joules
- Delay Reconnection Selector 15 sec / 30 sec / 3 min
- LED Indicators Provide Status Information
- High Voltage and Low Voltage Cut-off Protection

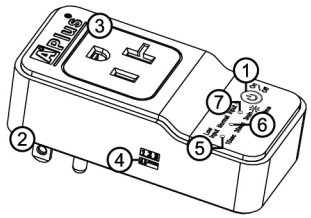
2 CAUTION

- Be sure to operate within the power rating of the Voltage Protector.
- **DO NOT** install the Voltage Protector near dust, corrosive fumes and conductive contaminants.
- **DO NOT** install the Voltage Protector near excessive humidity, under sunshine or near heating appliances such as a radiator or heater.
- **DO NOT** attempt to disassemble the Voltage Protector. The Voltage Protector contains no user-serviceable parts inside.

3 OPERATION

1. Make sure that your load does not exceed the rating of Voltage Protector, the rating capacity is shown on the label of product unit.
2. The limits of the Voltage Protector are specified on rating label. Power output will be cut off when input voltage falls below or rises above the specified input limits.
3. Set up the delay timer: See Table of Recommended Uses for more suitable applications.
4. Before power in, please turn off the load that you want to protect.
5. Connect the output socket of Voltage Protector to the input plug of load, and then plug the Voltage Protector into wall socket.
6. Once AC power is supplied to Voltage Protector, the LED indicator lights up initially in the stand-by mode. Once the delay timer has elapsed, the Normal LED will remain ON and the load will be energized and protected.
7. Turn off the Voltage Protector unit by pressing the power switch for 1 second. Turn on the Voltage Protector unit by pressing the power switch for 1 second.

4 OVERVIEW



1. Power On/Off switch
2. Input Plug
3. Output Socket
4. Delay timer setting 15 sec / 30 sec / 3 min
5. LED for Low Input voltage / 15 sec start up delay
6. LED for Normal Input voltage / 30 sec start up delay
7. LED for High Input voltage / 3 min sec start up delay

5 INDICATION TABLE

Mode	Status	Low Input LED/ 15 sec LED	Normal LED/ 30 sec LED	High Input LED/ 3 min LED
AC mode	AC input voltage is low voltage	LED is ON	LED is OFF	LED is OFF
	AC input voltage is normal	LED is OFF	LED is ON	LED is OFF
	AC input voltage is high voltage	LED is OFF	LED is OFF	LED is ON
Stand-by Mode	15 sec start up delay	LED is flashing	LED is OFF	LED is OFF
	30 sec start up delay	LED is OFF	LED is flashing	LED is OFF
	3 min start up delay	LED is OFF	LED is OFF	LED is flashing