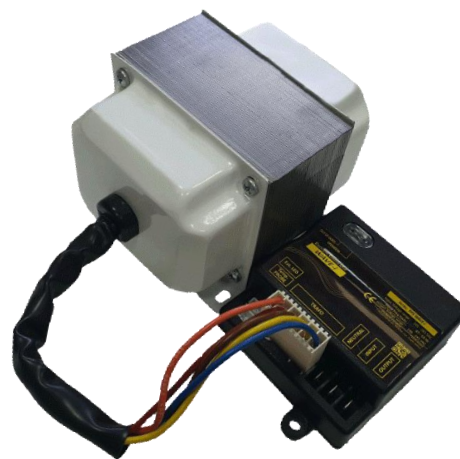


Wave-n



Advanced Voltage Stabilizer 165-270V

The Wave-n is an advanced voltage stabilizer system designed for OEM installation. It has been designed for applications such as:

- Glass Door Coolers
- Subzero Beer coolers
- Freezers
- Double Door Coolers
- Cake Coolers
- Vending Machines
- Post Mix Applications
- HVAC Applications

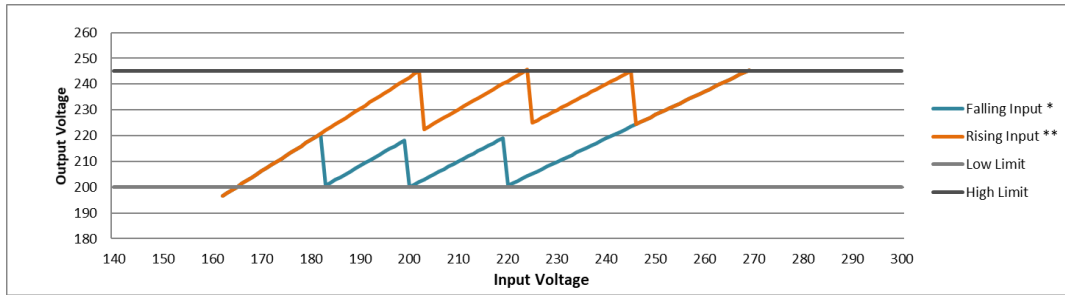
Features

- Wave-n is a Voltage and Frequency Supervisor
- Wave-n boosts the low voltage of the mains supply to maintain equipment operative
- Wave-n reduces the high voltage of the mains supply
- If voltage goes out of range the Wave-n will automatically disconnect the device
- Smart 3 Minute - When voltage is within range the Wave-n will wait for prior to reconnecting device to protect the asset
- Zero crossing (Zero voltage change over)
- Monitoring of Condenser area temperature for thermal events

Technical Data

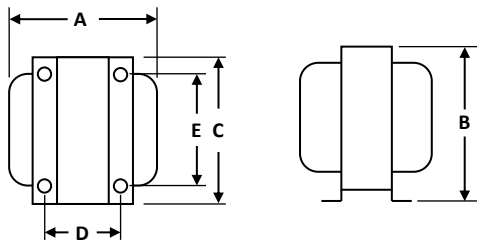
Model of Series PPS WAVE-xxxñ: [xxx: 045, 070, 090, 110]		045	070	090	110
Operating conditions	Nominal Voltage	220 - 240 VAC			
	Operation Voltage Bandwidth	90 - 310 VAC			
	Ambient Temperature	T _{min} -40°C T _{max} +65°C			
	Humidity	0 - 85 %RH			
Input <i>(Control for a.c. only)</i>	Low Voltage	165VAC ±3% with hysteresis			
	High Voltage	270 VAC ±3% with hysteresis			
	Lower Freq. Limit (50/60 Hz)	47 Hz / 57 Hz ±0.2Hz			
	Upper Freq. Limit (50/60 Hz)	53 Hz / 63 Hz ±0.2Hz			
Output	Voltage range	196 - 245 VAC ±3%			
	Max. Current (A)	2.0	3.0	4.0	4.7
	Continuous Operation (45°C) Current (A) @ Low Voltage	1.5	2.2	3.0	3.3
Start Up Time, Time Delay	- 3 minutes (2'30'' +0''to30'' random) - Zero on Production Line for first 30 minutes continuous operation of life cycle				
Thermal protection	- Temperature limits +80 °C - Temperature differential 15 °C / 15 minutes				
Plastic Housing	UL94 V-0 Flame Retardant				
Lifetime	Relay lifetime cycles 100.000				
Connections	6.3mm x 0.8mm flat, terminal				
Cable Harness - Lengths	Available at 250, 550, 1000 versions				
Insulation Class, Transformer Windings	F (155 °C)				
Total weight (Kg) (ECU, Trafo with cable 250mm)	1.6	1.9	2.3	2.7	

Input vs Output Graph 165V-270V

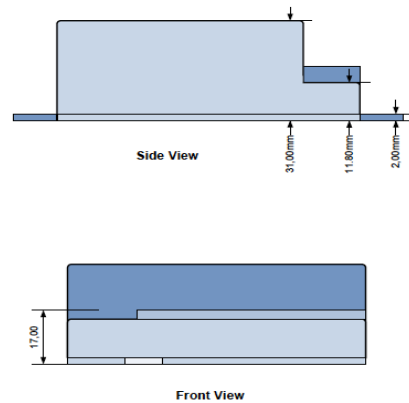
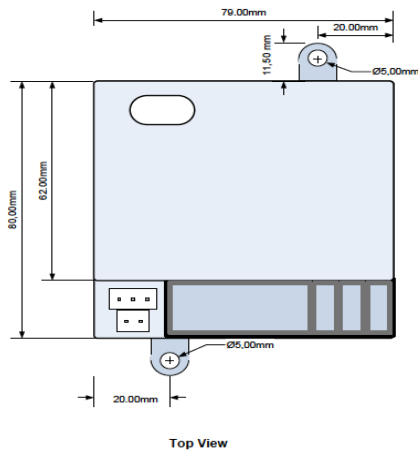


*Falling input: Output voltage graph, when the input voltage goes down
 **Rising input: Output Voltage graph, when the input voltage goes up

Dimensions drawings and Weights



Wave-n	45	70	90	110
A (mm)	93	100	104	109
B (mm)	75	75	75	86
C (mm)	84	84	84	96
D (mm)	45	50	55	59
E (mm)	73	73	82	88
Weight (Kg)	1.5	1.8	2.2	2.6



Approvals	
CE	LVD European Directive 2014/35/EU <ul style="list-style-type: none"> EN 61558-1:2005 +A1:2009 EN 61558-2-13:2009 EN 60730-1:2016 EN 60730-2-9:2010 Type of automatic action of Control: type 2 action
	EMC European Directive 2014/30/EU <ul style="list-style-type: none"> EN 61000-6-1:2007 EN 61000-6-3:2007+A1:2011 EN 60730-1:2016 EN 60730-2-9:2010 EN 62041:2010 EMC testing under nominal values of current and voltage
RoHS III (EU Directive 2015/863)	