Digital Smart Voltage Stabilisers

5kVA & 10kVA Single Phase

SUNWOLF

solar manufacturers and wholesalers





Product Description:

The Sunwolf range of Digital Smart Voltage Stabilisers, deliver precise, real-time voltage correction to safeguard sensitive appliances from damaging power fluctuations. These advanced stabilisers extend the lifespan of equipment, optimise electricity consumption with high-efficiency conversion, and feature robust digital protection against over-voltage, under-voltage, and short circuits.

The advantages of using a digital voltage stabiliser include:

- **Precise Voltage Regulation:** The digital microprocessor ensures appliances receive highly accurate, steady output voltage, within a 2% variance of 220V, outperforming traditional analogue relays.
- **Comprehensive Appliance Protection:** Instantaneous cut-offs guard against severe power spikes, surges, or extreme low-voltage conditions, preventing costly damage to compressors and sensitive electronics.
- **Energy Efficiency:** By maintaining optimal voltage, appliances such as air conditioners and refrigerators consume less power and operate cooler, resulting in significant long-term savings on electricity bills.
- **Real-Time Monitoring:** Integrated digital displays provide continuous readings of input voltage, output voltage, and operational status, including overload or delay warnings, in real-time.
- **Silent Operation & Low Maintenance:** Leveraging electronic components and solid-state technology instead of heavy mechanical relays, these stabilizers operate quietly and experience reduced wear-and-tear.

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Model	VOLTAGE STABILIZER	
Capacity	5kVA	10kVA
GENERAL CHARACTERISTICS		
Maximum load power in continuous	5000VA	10000VA
mode (at an input voltage of 165 to 310V)	4500W	9000W
Phase number	Single phase	
Stabilisation principle	AC/DC Double conversion inverter	
Operating principle	Inverter stabiliser	
Operating mode	Continuous	
Installation	Wall-mounted	
INPUT CHARACTERISTICS		
Operating voltage stabilisation accuracy	90-310	
Rated AC frequency, Hz	43-57	
Maximum input current A	30	59
OUTPUT CHARACTERISTICS		
Rated output voltage, V	220/230	
Output voltage stabilisation accuracy	2%	
Output voltage range V.	216-224/226-235	
Allowable overload	150% (at leaste 5s)	
Maximum switching time, ms	0ms (Instantaneous voltage stabilisation)	
Efficiency	At least 97%	
PROTECTION		
Input undervoltage trip voltage	90Vac	
Input voltage rise cut-off voltage	310Vac	
Overload protection	Yes	
Overheat protection	Yes	
Surge protection	Yes	
Anti high frequency interference range	Yes	
CONNECTIONS		
Input circuit	Terminal block	
Output circuit	Terminal block	
PERFORMANCE CHARACTERISTICS		
Cooling method	Fan	
Working temperature (0°C)	-5~+40	
Storage temperature (0°C)	-40~+45	
Atmospheric pressure (kPa)	84~1067	
Relative humidity	<90% (35°C)	
Protection class	IP20	
Types of user maintenance	No maintenance	
during operation		
PACKAGING		
Package size, L*W*H (mm)	275*141*405	552*412*154
Product dimensions, L*W*H (mm)	247*105*350	379*483*98
Gross weight (kg)	5.5	12.5
Net weight (kg)	5	10.3