

Power Saver for Lighting

■ AC Power Conditioner

Overview

The energy consumption in the lighting sector, whether in public lighting or private users, constitutes a high percentage of the total energy used. In view of rising energy cost, the intelligent use of electricity is becoming increasingly important and optimization therefore an operational necessity.

DZG series Power Saver is a sustainable system which reduces electricity cost sustainably without affecting the performance and reliability of the equipment in any way. The Power Saver starts up by automatically executing the ignition cycle of the lamps in a time programmable by the user. After this, the Power Saver gradually reaches the preset rated voltage value. When, for various reasons, the peak lighting level is no longer needed, the Power Saver reduces the voltage powering the lamps, thus achieving a significant energy saving up to 50%. The transitions between the various operating conditions are so slow that the change in illumination is not perceptible to users.

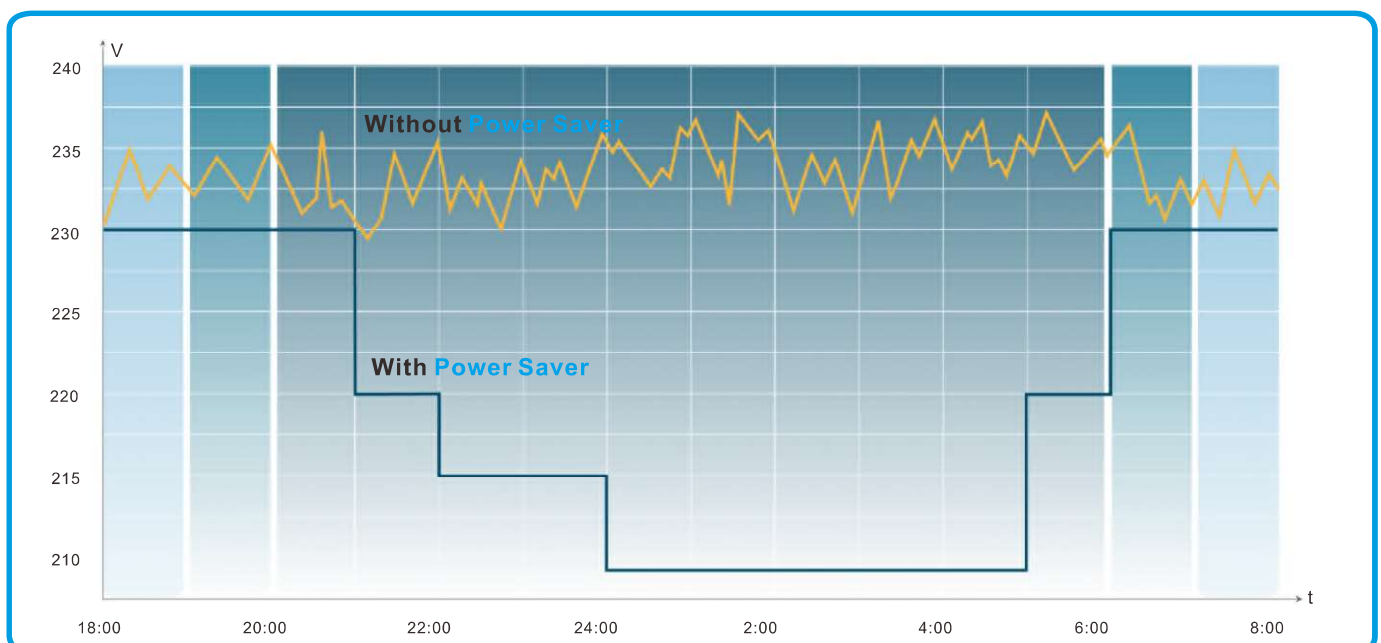


Fig. 1: Voltage curve from 6:00 p.m. to 8:00 a.m.

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Features and Benefits

- Energy saving of up to 50%
- Fast return of investment (ROI) time
- Prolonged equipment life span
- High operational efficiency
- Individual adaptation voltage level by programming of time curves
- Automatic bypass switch protects against lighting outages
- Easy integration in existing systems
- Different types of lamps can operated together in one system
- PLC controlled
- Single and three phase up to 1000KVA

Specifications

Input Voltage	400 ± 5% other voltage on request
Output Voltage	Maximum nominal reduction of 17%
Output Adjustment	4 steps of - 5%, -8% , -13%, -17% (other upon request)
Supply Frequency	50/60 Hz
Waveform Distortion	None
Insulation Class	H class
Duty Type	Continuous
Cooling Type	Natural Air(AN)/Forced Air(AF)
Efficiency	>99% at full load
Electrical Safety	CE equivalent
Operation Temperature	-20 °C to +45 °C
Relative Humidity	<90% non-condensing
Enclosure	IP20(indoor), outdoor on request
GPRS(Optional)	Remote control and monitoring the VO unit parameters

Models & Dimensions

Model	Dimension (W×D×H)mm	Model	Dimension (W×D×H)mm
DZG-20KVA	300 × 600 × 700	DZG-225KVA	400 × 800 × 800
DZG-30KVA	300 × 600 × 700	DZG-250KVA	500 × 900 × 1000
DZG-50KVA	300 × 600 × 700	DZG-300KVA	500 × 900 × 1000
DZG-75KVA	300 × 600 × 700	DZG-350KVA	500 × 900 × 1000
DZG-100KVA	300 × 600 × 700	DZG-400KVA	500 × 900 × 1000
DZG-125KVA	400 × 800 × 800	DZG-500KVA	500 × 900 × 1000
DZG-150KVA	400 × 800 × 800	DZG-600KVA	500 × 900 × 1000
DZG-175KVA	400 × 800 × 800	DZG-800KVA	600 × 1000 × 1200
DZG-200KVA	400 × 800 × 800	DZG-1000KVA	600 × 1000 × 1200

We reserve the right to change specifications without notice due to continual improvements.