

INDUSTRIAL INTELLIGENT  
MICRO-CHIP STATIC VOLTAGE REGULATOR



MEGNA-150DW  
Three Phase



TECHNICAL SPECIFICATION

| Model       | Rated Power  | Phase No         |
|-------------|--------------|------------------|
| MEGNA-150DW | 150KVA/120KW | 3 Phase (3L-N-G) |

INPUT

Voltage:220V/380V (230V/400V, 240V/415V system or other voltage system can be customized)

Range:±15% (+ 20%, 30% or other can be customized)

OUTPUT

Voltage:220V/380V (230V/400V, 240V/415V system or other voltage system can be customized)

Accuracy:20~200KVA: ± 1%, 250~3000KVA: ± 2%

Frequency (Hz):50Hz/60Hz

Power Factor:0.8

Efficiency:≥ 98%

Response Time:≤ 0.04 sec

Insulation Resistance:≥ 2MΩ

Electrical Strength:2000V / 1 min

Overlaod:Double rated current, for one min

Waveform Distortion:No additional waveform distortion (Nil)

GENERAL

Working Principle:Non-contact, CPU intelligent SCR control, digital circuit, full automatic voltage-stabilizing

Display:Large screen LCD, user friendly man-machine interface

Cooling:Natural/Forced air

Protection Level:IP21 (indoor)

Working Mode:Continuous

Applied Loads:Arbitrary Loads

ENVIRONMENTAL

Installation:Indoor IP21

Ambient Temprature:- 10°C~+40°C

Atitude:< 1000m

Relative Humidity:< 95%

Noise:< 45dB

Attention:No gas and vapor destructive to insulation of voltage stabilizer, no chemical deposition dust, dirtiness and other explosive and corrosive substances.  
No obvious vibration and shake.

FUNCTIONS

Normal Functions:With split-phase regulating system, automatic bypass (city power) system, over-voltage, under-voltage, over-current, over-load, short-circuit, time delay, machine fault, auto recovery etc. full necessary protections.

Optional Functions:Phase sequence or phase missing, surge protection (SPD), EMI filter, RS-232 interface etc.

DIMENSION AND WEIGHT:

Net Weight :240

Gross Weight:270

Product Size (mm):430\*780\*1170

PackingSize (mm):530\*880\*1320

Remarks:Product specifications are subject to change without notice  
Custom-made specifications are acceptable



# MICRO-CHIP STATIC VOLTAGE REGULATOR

## MEGNA-150DW (150KVA/120KW)

### Features:

Non-contact, CPU intelligent SCR control, Digital Circuit Control, stable and reliable.

High efficiency: >99%.

High precision :  $\pm 1\%$ ,  $\pm 2\%$ ,  $\pm 3\%$ ,  $\pm 5\%$  (adjustable)

Non-contact, anti-interrupt, maintenance free, no mechanical failure and carbon brush attrition.

**Intelligent instrument display:** Intelligent instrument real-time display of voltage, current, power, such as RMS, clear, accurate, high resolution thin-film button operation, safe and reliable.

**Three-phase separately adjustment:** Output voltage unbalance is less than 1% so that guarantee the precision of each phase is stable.

**Wide application range:** Widen voltage stable range, it can meet the need to work in the poor voltage condition

**Quickly response:** Stabilization response within 40ms, no influence on computerized automation, Machine and Equipment.

**Full protection function:** Fault display and alert in over loaded, over voltage, lack of voltage, lack of phase, short circuit, over heat confirming appliance running in a safety condition.

**Preset function:** Protective limit can set freely.

**Strong ability for instantaneous overload:** The high quality material can confirm excellent performance. This machine can continuously run in 100% rated load. Further more, it can bear the instantaneous overload without any harmfulness.

**Well-adapted ability:** This stabilizer have high adaptability toward bad and complicated live wire entanglement so it can work continuously and stably

**No distortion:** We use current zero-crossing switching technology. There is no current interruption, no surging current and waveform distortion during the switching processes.

**Low loss:** Least power loss; No-load loss is less than 0.5% , saving money on electricity for customer.

**Bypass function, convenience in maintain:** It can switch between voltage stabilizer and bypass power supply which

### Applications:

Metal processing devices, Production lines, Construction devices, Medical equipments, Spinning machines, Air conditioner & Elevator Lighting, TV and house appliance, Large electromechanical devices in industry, agriculture, communication, post and telecommunication, military, railway, science research etc.

### Notes for ordering:

Please notify the model product, capacity, input voltage range and output voltage, accuracy as well as the application environment (normal product if no special requirements) when ordering.

### General:

Industrial Micro-chip (CPU), Non-contact (contactless) compensated voltage stabilizer which is new generation quick stabilizing voltage equipment developed by our company through many years hard work. it adopts the newest high speed operating chip control technology, fastest AC sampling technology, efficient calibrate technology, They control several available silicon slices by special sequence to control the voltage connections, then to change the main voltage and voltage polar. It composes of insulation transformer SCR mode, CPU control core, fast voltage stabilizing technology and security equipments, and accomplishes non-contract control, safe, high, efficient and energy conversation. It is the perfect match of voltage translator and SCR on/off switch. This product are highly suitable to the equipment which needs high reliable and high stable power supply, or equipment in high amplitude of fluctuation voltage net.

### Work principle:

This products series adopt the newest DSP operation and metering IC control technology, current zero-crossing switching and fast compensating voltage stabilizing technology. They control the voltage several available silicon slice by special sequence to control the voltage connections, then to change the main voltage and voltage polar. It is composed of insulation transformer, SCR modules, CPU control core, fast voltage stabilizer accomplish non-contact control, safe, high efficient, energy comversatoion and environment protection. It is the perfect match of transformer and SCR on/off switch.

### Product workmanship:

With high mechanization equipments, the products will be more beautiful, compact and good heat dissipation. The automatic production process will be more efficient, lower labor cost, and increase production capacity, further to improve the overall performance of our products and production workmanship level.

### After-sale services:

Manufacturer guarantees free maintenance (except unsuitable operation) within one year after the date of Bill of Lading(B/L). After guarantee period, we provide free technical service and collect charges for damaged material, please contact our service department for any special condition.

