

# Himel



## VOLTAGE STABILIZERS

Keep your appliances safe at affordable price

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# VOLTAGE STABILIZERS



## HTND Servo type Voltage Stabilizers

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HTND



HTND2



HTND3

Rated capacity: 0.5~30kVA  
Regulation type: servo motor type

## HAVRL Relay type Voltage Stabilizers

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HAVRL

Rated capacity: 0.5-10kVA  
Regulation type: relay type

## HSVCB Servo type wall-mounted Voltage Stabilizers

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HSVCB

Rated capacity: 3-10kVA  
Regulation type: servo motor type  
Installation method: wall-mounted

## HSJW Three-phase AC Voltage Stabilizers up to 60kVA

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HSJW

Rated capacity: 1.5-60kVA  
Regulation type: servo motor type

## HAVRB Relay Type Wall-Mounted Voltage Stabilizer

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HAVRB

Rated Capacity: 1-12kVA  
Regulation Type: Relay Type  
Installation Method: Wall-mounted

## HSBW Three-phase AC Voltage Stabilizers up to 2000kVA

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HSBW

Rated capacity: 10-2000kVA  
Regulation type: servo motor type

# VOLTAGE STABILIZERS

## Easy Selction Guide for Single-phase Voltage Stabilizer

Capacity:  $\leq 2\text{kVA}$ :

- Plug socket is available for applications
- Suitable for protections of home appliances, e.g. TV, washing machine, fridge, etc.

3kVA ~10kVA:

- Suitable for home, office and shops
- Suitable for protections of more than 1 device working, e.g. air conditioner plus lamps and TV.

10-30kVA:

- Cabinet type
- It is available in home, office and shops
- Selection of HTND/HTND2/HTND3 will depend on your specified requirement
- Suitable for protection of multi devices.

## Product Overview

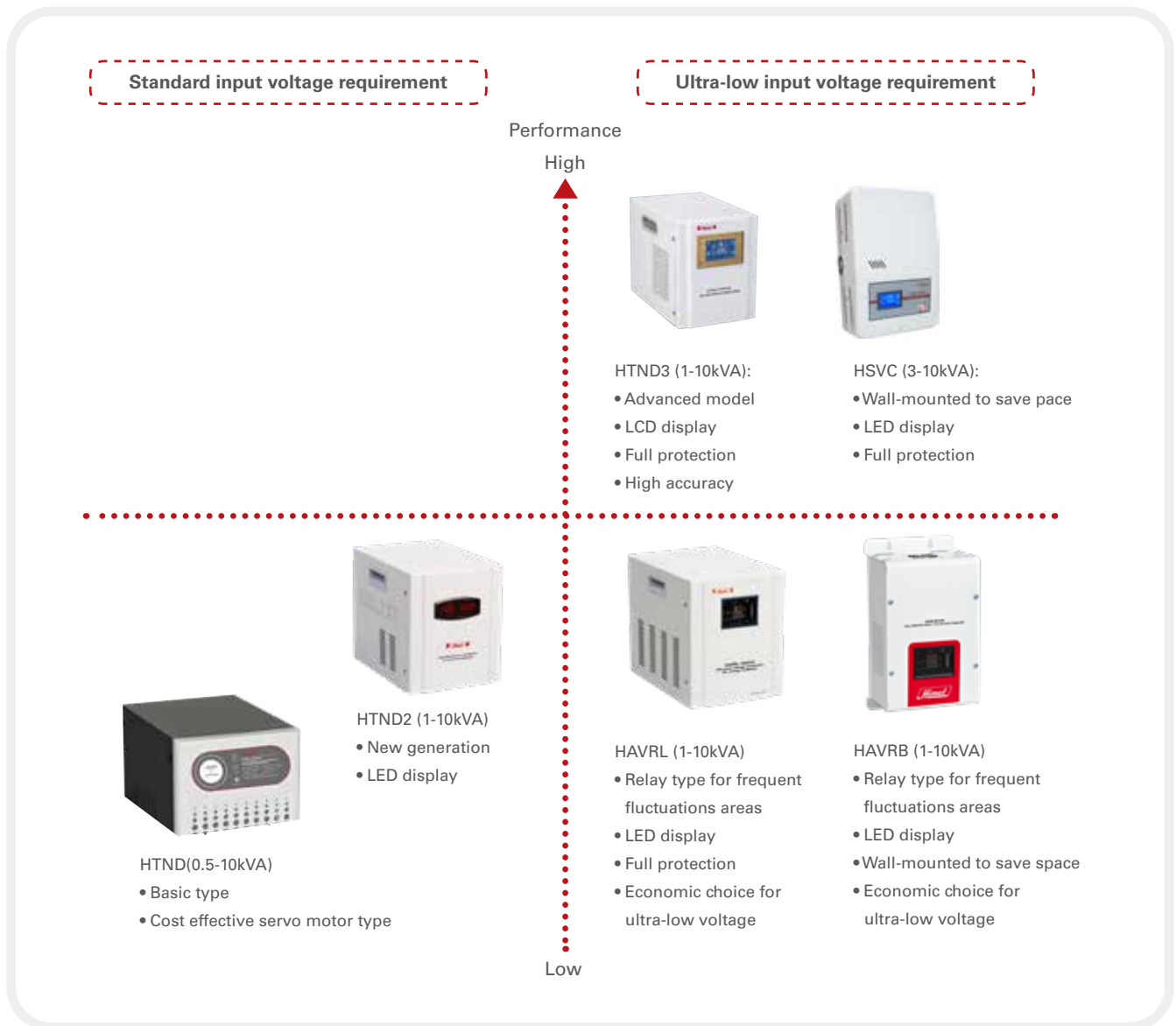
Single-Phase Voltage Stabilizer

- √ Servo motor type
  - HTND · HTND2 · HTND3 · HSVC
- √ Relay type
  - HAVRL

Three-Phase Voltage Stabilizer

- √ Servo motor type
  - HSJW · HSBW

## Voltage Stabilizer capacity: 1kVA~10kVA (single-phase)





## Voltage Stabilizers

Keep your appliances safe from unstable power supply



### Meet Wide Range of Specifications Requirement

- **Rated capacity**  
0.5–30kVA
- **Connection Type**  
European plug, British Plug and Terminal Connect
- **Standard**  
EN61000-6-2, EN61000-6-4, EN61558-1
- **Input Voltage Range**  
150–250 V with Ultra Low Voltage Type 110–250V



### Robust All Round Protection

- **Stable Output Voltage**  
With delay, overvoltage, undervoltage and overcurrent protection functions
- **Control System with Linear Integrated Circuits**  
efficiently control the servomotor

## VOLTAGE STABILIZERS

# HTND Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



### Range Presentation

HTND is Himel range of single-phase servo motor type voltage stabilizers. It's up to 30KVA with high accuracy and smooth stabilization.

### Online Content



HTND



HTND2



HTND3

### Selection Code

| Model                      | Power Rating  | Connection Type   | Input Voltage   | Output Voltage  |
|----------------------------|---|---|---|---|
| <b>HTND</b>                | <b>P5</b>   | <b>HE</b>   | <b>I110</b>   | <b>O230</b>   |
| <b>HTND:</b> HTND series   | <b>P5:</b> 0.5kVA<br><b>1:</b> 1kVA<br><b>1P5:</b> 1.5kVA<br><b>2:</b> 2kVA<br><b>3:</b> 3kVA<br><b>5:</b> 5kVA<br><b>7:</b> 7kVA<br><b>10:</b> 10kVA<br><b>10G:</b> 10kVA cabinet<br><b>15G:</b> 15kVA cabinet<br><b>20G:</b> 20kVA cabinet<br><b>30G:</b> 30kVA cabinet | <b>HE:</b> Europe plug (1.5kVA)<br><br><b>HB:</b> British plug<br>(only when capacity ≤ 1.5kVA)<br><br><b>H:</b> Terminal connect                       | <b>Default:</b> Standard 150-250V<br><b>I110:</b> Input: 110-250V                               | <b>Default:</b> Output 220V<br><br><b>O230:</b> Output 230V |
| <b>HTND2:</b> HTND2 series | <b>1:</b> 1kVA<br><b>1P5:</b> 1.5kVA<br><b>2:</b> 2kVA<br><b>3:</b> 3kVA<br><b>5:</b> 5kVA<br><b>7:</b> 7kVA<br><b>10:</b> 10kVA<br><b>10G:</b> 10kVA cabinet<br><b>15G:</b> 15kVA cabinet<br><b>20G:</b> 20kVA cabinet<br><b>30G:</b> 30kVA cabinet                      | <b>HE:</b> Europe plug<br>(only when capacity ≤ 10kVA)<br><br><b>HB:</b> British plug<br>(only when capacity ≤ 10kVA)<br><br><b>H:</b> Terminal connect | <b>Default:</b> Standard 140-250V<br><b>I85:</b> Input: 85-250V<br><b>I110:</b> Input: 110-250V | <b>Default:</b> Output 220V<br><br><b>O230:</b> Output 230V |
| <b>HTND3:</b> HTND3 series | <b>1:</b> 1kVA<br><b>1P5:</b> 1.5kVA<br><b>2:</b> 2kVA<br><b>3:</b> 3kVA<br><b>5:</b> 5kVA<br><b>7:</b> 7kVA<br><b>10:</b> 10kVA<br><b>10G:</b> 10kVA cabinet<br><b>15G:</b> 15kVA cabinet<br><b>20G:</b> 20kVA cabinet<br><b>30G:</b> 30kVA cabinet                      | <b>HE:</b> Europe plug<br>(only when capacity ≤ 10kVA)<br><br><b>HB:</b> British plug<br>(only when capacity ≤ 10kVA)<br><br><b>H:</b> Terminal connect | <b>Default:</b> Standard 140-250V<br><b>I85:</b> Input: 85-250V<br><b>I110:</b> Input: 110-250V | <b>Default:</b> Output 220V<br><br><b>O230:</b> Output 230V |

Note: Additional features are available, please consult us if you want to customized type.

### Spare Parts List - For HTND Family

- ✓ Servo motor
- ✓ Carbon brush
- ✓ PCB
- ✓ Limit switch
- ✓ Regulating coil
- ✓ Compensating coil (when capacity ≥ 15kVA)
- ✓ Screen

Note: Additional features are available. Please reach to local sales for further information.

## VOLTAGE STABILIZERS

# HTND Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



### Technical Parameters

| HTND product series      |                                | HTND   | HTND2  | HTND3                             |
|--------------------------|--------------------------------|--|--|-----------------------------------|
| Rated Capacity           | kVA                            | 0.5~30   | 1~30   |                                   |
| Output voltage           | Accuracy of stabilized voltage | 0.5~5kVA: 220 (or 230) ±4%;<br>110 (or 115) ±4%<br>7~30kVA: 220 (or 230) ±4%   | 1~5kVA: 220 (or 230) ±4%;<br>110 (or 115) ±4%<br>7~30kVA: 220 (or 230) ±4% |                                   |
|                          | Undervoltage Protection        | V  | 184 (or 194) ±4  |                                   |
|                          | Overvoltage Protection         | V  | 246 (or 256) ±4  |                                   |
| Range of Input Voltage   | V                              | 140~250  |  |                                   |
| Customized Input Range   | V                              | 100-240  | 85-250 or 110-250  |                                   |
| Extended Function        | Optional                       | By-pass (not available for 30kVA)  | By-pass (not available for 30kVA)  | By-pass (not available for 30kVA) |
|                          |                                | Fan  | Fan  | Fan                               |
|                          |                                | Output undervoltage protection   | Temperature rise protection  | Input undervoltage protection     |
|                          |                                | Overload protection  | Overload protection  |                                   |
|                          |                                | Temperature rise protection  | Input undervoltage protection  |                                   |
|                          |                                | Input undervoltage protection  | Time delay   |                                   |
| Time delay               |                                |  |  |                                   |
| Cooling Mode             |                                | Air cooling can be customized (not for standard product: standard one is self-cooling)   |  |                                   |
| Voltage-regulating Speed | s                              | <1 (variation of input voltage is 10%)   |  |                                   |
| Temperature rise         | K                              | <80  |  |                                   |
| Frequency                | Hz                             | 50/60  |  |                                   |
| Display mode             |                                | Dial meter (0.5-10kVA)<br>LED (10-30kVA)   | LED  | LCD                               |
| Insulation grade         |                                | B  |  |                                   |
| Insulation resistance    | MΩ                             | ≥5   |  |                                   |
| Time Delay               | min                            | 5±2 (not for standard product) can be customized   |  |                                   |
| Withstand voltage        | V/1min                         | 1500   |  |                                   |
| Efficiency               |                                | 92%  |  |                                   |
| Maximum rated current    | A                              | 2.3 (0.5kVA), 4.5 (1kVA), 6.8 (1.5kVA), 9.1 (2kVA), 13.6 (3kVA), 22.7 (5kVA), 31.8 (7kVA), 45.5 (10kVA), 68 (15kVA), 90.9 (20kVA), 136 (30kVA) |  |                                   |
| Certification            |                                | CE   |  |                                   |
| Standard                 |                                | EN61000-6-2/ EN61000-6-4/EN61558-1   |  |                                   |

Note:

- By-pass is not available for 30kVA.
- Customization of additional protection on request.

### Portfolio for HTND family (not customized type)

| HTND product series |                       | HTND  | HTND2                        | HTND3                        |
|---------------------|-----------------------|---|------------------------------|------------------------------|
| Characteristics     | Description           | Single phase full automatic AC voltage stabilizer |                              |                              |
|                     | Capacity              | 0.5,1,1.5,2,3,5,7,10,15,20,30kVA                  | 1,1.5,2,3,5,7,10,15,20,30kVA | 1,1.5,2,3,5,7,10,15,20,30kVA |
|                     | Type                  | Servo motor                                       | Servo motor                  | Servo motor                  |
|                     | Standard              | EN 61000-6-2,61000-6-4,61558-1                    |                              |                              |
|                     | Certification         | CE  | CE                           | CE                           |
| Protection          | Overvoltage           | ✓   | ✓                            | ✓                            |
|                     | Short circuit         | ✓   | ✓                            | ✓                            |
|                     | Overload              | *   | *                            | ✓                            |
|                     | Undervoltage (output) | *   | ✓                            | ✓                            |
|                     | Temperature rise      | *   | *                            | ✓                            |
|                     | Time delay            | *   | *                            | ✓                            |
|                     | By-pass               | *   | *                            | *                            |

Note:

- (1) "\*" means optional functions for this series, which is required to be customized;
- (2) Even through overload protection is not the standard feature for all series, short circuit protection can help the system protect against overload issue at a certain level;
- (3) By-pass is not available for 30kVA.

## VOLTAGE STABILIZERS

# HSVCB Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



### Range Presentation

HSVCB is Himel range of single-phase wall-mounted servo motor type voltage stabilizers. It's up to 10KVA, and facilitates saving of mounting space.

### Online Content



HSVCB

### Selection Code

| Model        | Power Rating   | Display   | Input Voltage   | Output Voltage  |
|--------------|--|---|---|---|
| <b>HSVCB</b> | <b>5</b>   | <b>C</b>  | <b>I110</b>   | <b>O230</b>   |
| <b>HSVCB</b> | <b>3:</b> 3kVA<br><b>5:</b> 5kVA<br><b>7:</b> 7kVA<br><b>8:</b> 8kVA<br><b>10:</b> 10kVA | <b>Default:</b> pointer display (dial meter)<br><b>C:</b> LCD | <b>Default:</b> Standard 140-250V<br><b>I85:</b> Input: 85-250V<br><b>I110:</b> Input: 110-250V | <b>Default:</b> Output 220V<br><b>O230:</b> Output 230V |

Note: Additional features are available, please contact local Himel sales.

### Technical Parameters

| Type                     |                                | HSVCB High Precise Full-Automatic AC Voltage Stabilizer           |                        |
|--------------------------|--------------------------------|---|------------------------|
| Rated Capacity           | kVA                            | 3~7   | 10                     |
| Output Voltage           | Accuracy of stabilized voltage | 220 (or 230) $\pm 4\%$ ;<br>110 (or 115) $\pm 4\%$                | 220 (or 230) $\pm 4\%$ |
|                          | Undervoltage Protection        | 184 (or 194) $\pm 4$ (not for standard product) can be customized |                        |
|                          | Overvoltage protection         | 246 (or 256) $\pm 4$  |                        |
| Range of input voltage   | V                              | 110-250, 140-150 or 85-250  |                        |
| Customized Input Range   | V                              | 85-250  |                        |
| Extended function*       | Optional                       | Fan<br>Input undervoltage protection                              |                        |
| Voltage-regulating speed | s                              | <1 (variation of input voltage is 10%)                            |                        |
| Temperature rise         | K                              | <80   |                        |
| Frequency                | Hz                             | 50/60   |                        |
| Display mode             |                                | LED or LCD  |                        |
| Insulation resistance    | M $\Omega$                     | $\geq 5$  |                        |
| Time delay               | min                            | 5 $\pm 4$ (not for standard product) can be customized            |                        |
| Withstand voltage        | V/1min                         | 1500  |                        |
| Efficiency               |                                | > 92%   |                        |
| Maximum rated current    | A                              | 13.6 (3kVA), 22.7 (5kVA), 31.8 (7kVA), 45.5 (10kVA)               |                        |
| Standard                 |                                | EN61000-6-2/ EN61000-6-4/EN61558-1                                |                        |
| Certification            |                                | CE  |                        |

\* Please consult us.

### Spare Parts List

√ Servo motor √ Carbon brush √ PCB √ Limit switch √ Relay √ Regulating coil √ Screen

## VOLTAGE STABILIZERS

# HAVRB Voltage Stabilizer

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



Online Content



HAVRB

### Range Presentation

HAVRB is Himel range of single-phase wall-mounted relay type voltage stabilizers. It's up to 12KVA, and it facilitates saving of mounting space and solves the issue of frequent fluctuations from the power grid.

### Selection Code

| Model        | Power Rating   | Input Voltage   | Output Voltage              |
|--------------|--|---|-----------------------------|
| <b>HAVRB</b> | <b>5</b>   | <b>I110</b>   | <b>-</b>                    |
| <b>HAVRB</b> | <b>1:</b> 1kVA<br><b>1P5:</b> 1.5kVA<br><b>2:</b> 2kVA<br><b>3:</b> 3kVA<br><b>5:</b> 5kVA<br><b>7:</b> 7kVA<br><b>8:</b> 8kVA<br><b>10:</b> 10kVA<br><b>12:</b> 12kVA | <b>Default:</b> Standard 140~250V<br><b>I85:</b> Input: 85~250V<br><b>I110:</b> Input: 110~250V | <b>Default:</b> Output 220V |

Note: HAVRB only has 220V output. Additional features are available, please consult local sales for further information.

### Technical Parameters

| Relay Type Wall-mounted Voltage Stabilizers |                                |   | HAVRB  |
|---|--------------------------------|---|--|
| Output Voltage                              | Accuracy of stabilized voltage | V | 220±8%   |
|   | Undervoltage protection        | V | 184±4  |
|   | Overvoltage protection         | V | 250±4  |
| Range of Input Voltage                      |                                | V | 140~250  |
| Standard Function                           |                                |   | Overload protection<br>Short circuit protection<br>Output overvoltage protection<br>Output undervoltage protection<br>Time delay |
| Customized Input Range                      | V                              |   | 110-250 or 85-250  |
| Extended Function*                          | Optional                       |   | Fan By-pass<br>Input undervoltage protection<br>Temperature rise protection  |
| Voltage-regulating Speed                    | ms                             |   | <10  |
| Temperature Rise                            | K                              |   | <75 (with rated load)  |
| Frequency                                   | Hz                             |   | 50/60  |
| Display Mode                                |                                |   | LED  |
| Insulation Resistance                       | MΩ                             |   | ≥5   |
| Efficiency                                  |                                |   | >90%   |
| Maximum Rated Current                       | A                              |   | 1.5 (1kVA), 6.8 (1.5kVA), 9.1 (2kVA), 13.6 (3kVA), 22.7 (5kVA), 31.8 (7kVA), 36.4 (8kVA), 45 (10kVA), 54.5 (12kVA)               |
| Standard                                    |                                |   | EN61000-6-2/ EN61000-6-4/EN61558-1   |

\*please contact local Himel Sales for customization requirement.



## VOLTAGE STABILIZERS

# HAVRL Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



Online Content



HAVRL

### Range Presentation

HAVRL is Himel range of single-phase relay type voltage stabilizers. It's up to 10KVA, and it can solve the frequent fluctuations issue from power grid.

### Selection Code

| Model        | Power Rating   | Connection Type                                   | Input Voltage  |
|--------------|--|---|--|
| <b>HAVRL</b> | <b>P5</b>  | <b>HE</b>   | <b>I110</b>  |
| <b>HAVRL</b> | <b>P5:</b> 0.5kVA<br><b>1:</b> 1kVA<br><b>1P5:</b> 1.5kVA<br>...<br><b>10:</b> 10kVA | <b>HE:</b> Europe plug<br><b>HB:</b> British plug | <b>Default:</b> Input: 85-250V<br><b>I110:</b> Input: 110-250V |

Note: HAVRL only has 220V output. Additional features are available, please consult us if you want to customized type.

### Technical Parameters

| Ultra-Low Voltage Relay Type Voltage Stabilizer |                                |   | HAVRL   |                |
|---|--------------------------------|---|---|----------------|
| Type  |                                |   | HAVRL Ultra-Low Voltage Full-Automatic AC Voltage Stabilizer  |                |
|   |                                |   | Standard Model  | Economic Model |
| Rated capacity                                  | kVA                            |   | 0.5-10  |                |
| Output voltage                                  | Accuracy of stabilized voltage | V | 220±8%;<br>110±10% (only when capacity is equal or less than 5kVA)                                    |                |
|   | Overvoltage protection         | V | 250±4   |                |
| Range of input voltage                          | V                              |   | 85-250  | 110-250        |
| Customized input range                          | V                              |   | 110-250 or<br>140-250   | 140-250        |
| Extended function*                              | Optional                       |   | By-pass<br>Fan<br>Input undervoltage protection   |                |
| Power factor                                    |                                |   | 0.8   | 0.6            |
| Voltage-regulating speed                        | ms                             |   | <10   |                |
| Temperature rise                                | K                              |   | <75 (with rated load)   |                |
| Frequency                                       | Hz                             |   | 50/60   |                |
| Display mode                                    |                                |   | LED   |                |
| Insulation resistance                           | MΩ                             |   | ≥5  |                |
| Efficiency                                      |                                |   | >90%  |                |
| Maximum rated current                           | A                              |   | 2.3 (0.5kVA), 4.5 (1kVA), 6.8 (1.5kVA), 9.0 (2kVA), 13.6 (3kVA), 22.7 (5kVA), 31.8 (7kVA), 45 (10kVA) |                |
| Standard  |                                |   | EN61000-6-2/ EN61000-6-4/EN61558-1  |                |

\*Additional features are available. Please contact local sales for further information.

## VOLTAGE STABILIZERS

# HAVRL Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1

### Portfolio for HSVC & HAVRL & HAVRB (not customized type)

| HTND product series |                       | HSVC-B  | HTND2                   |                | HAVRB                       |
|---------------------|-----------------------|---|-------------------------|----------------|-----------------------------|
|                     |                       |   | Standard Model          | Economic Model |                             |
| Characteristics     | Description           | Single phase full automatic AC voltage stabilizer |                         |                |                             |
|                     | Capacity              | 3,5,7,10kVA                                       | 0.5,1,1.5,2,3,5,7,10kVA |                | 1,1.5,2,3,5,7, 8, 10, 12KVA |
|                     | Type                  | Servo motor                                       | Relay type              |                |                             |
|                     | Standard              | EN 61000-6-2,61000-6-4,61558-1                    |                         |                |                             |
|                     | Certification         | CE  | -                       |                | -                           |
| Protection          | Overvoltage           | ✓   | ✓                       |                | ✓                           |
|                     | Overload              | ✓   | ✓                       |                | ✓                           |
|                     | Temperature rise      | ✓   | ✓                       |                | ●                           |
|                     | Short circuit         | ✓   | ✓                       |                | ✓                           |
|                     | Undervoltage (output) | ●   | ✓                       | -              | ●                           |
|                     | Time delay            | ●   | ✓                       |                | ●                           |
|                     | By-pass               | ✓   | *                       |                | ●                           |

Note:

(1) "\*" means optional functions for this series, which can be customized as per request.

(2) "●" means that for HSVC series, output undervoltage protection and time delay function cannot be extended at the same time: customer can only choose one of them for each order; otherwise, the value of the output undervoltage protection should be set as a fixed value and this function cannot be selected;

(3) Even through overload protection is not the standard one for all series, short circuit protection can help the system protect against overload issue at a certain level.

### Spare Parts List - for HSVC & HAVRL

✓ Servo motor (only for HSVC)

✓ Carbon brush (only for HSVC)

✓ PCB

✓ Limit switch (only for HSVC)

✓ Relay (only for HAVRL)

✓ Regulating coil

✓ Screen

## VOLTAGE STABILIZERS

# HSJW Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



### Range Presentation

HSJW is Himel range of three-phase servo motor type voltage stabilizers. It's up to 60KVA with high accuracy.

### Online Content



HSJW

### Selection Code

| Model       | Power Rating   | Shape  | Display   | Input Voltage   | Output Voltage  |
|-------------|--|--|---|---|---|
| <b>HSJW</b> | <b>1P5</b>   | <b>G</b>   | <b>E</b>  | <b>I250</b>   | <b>O400</b>   |
| <b>HSJW</b> | <b>1P5:</b> 1.5kVA<br><b>3:</b> 3kVA<br><b>4P5:</b> 4.5kVA<br><b>6:</b> 6kVA<br><b>9:</b> 9kVA<br><b>15:</b> 15kVA<br><b>20:</b> 20kVA<br><b>30:</b> 30kVA<br><b>45:</b> 45kVA<br><b>60:</b> 60kVA | <b>Default:</b> Desktop; Only for 1.5KVA~4.5KVA<br><br><b>G:</b> Cabinet | <b>Default:</b> Dial meter display<br><br><b>E:</b> LED display<br><br><b>MLCD:</b> Multifunction meter (LCD) display | <b>Default:</b> I/260-430V for 1.5-30kVA; I/ 304-456V for 45-60kVA<br><br><b>I250:</b> Input 250-423V | <b>Default:</b> Output 380V<br><b>O400:</b> Output 400V |

### Technical Parameters

| Three-Phase Voltage Stabilizer |                                |         | HSJW   |       |
|--------------------------------|--------------------------------|---------|--|-------|
| Type                           |                                |         | HSJW Three-Phase Full-Automatic AC Voltage Stabilizer  |       |
| Rated capacity                 | kVA                            |         | 1.5-30   | 45-60 |
| Output voltage                 | Accuracy of stabilized voltage | V       | 380 (or 400) ±4%   |       |
|                                | Undervoltage Protection        | V       | 320 (or 340) ±7 (not for standard product) can be customized   |       |
|                                | Oversvoltage Protection        | V       | 425 (or 445) ±7  |       |
| Range of input voltage         | V                              | 260-430 | 304-456 (or 320-480)   |       |
| Customized input range         | V                              |         | 250~423  |       |
| Extended function*             | Optional                       |         | By-pass<br>Fan<br>Input undervoltage protection<br>Output undervoltage protection<br>Overload protection<br>Phase failure protection<br>Temperature rise protection<br>Time delay<br>Surge protector |       |
| Voltage-regulating speed       | s                              |         | <1 (variation of input voltage is 10%)   |       |
| Temperature rise               | K                              |         | <80  |       |
| Ambient temperature            | °C                             |         | -5°C~+40°C   |       |
| Frequency                      | Hz                             |         | 50/60  |       |
| Display mode                   |                                |         | Dial Meter (Panel Meter) or LED or LCD   |       |
| Insulation resistance          | MΩ                             |         | ≥5   |       |
| Withstand voltage              | V/1min                         |         | 1500   |       |
| Efficiency                     |                                |         | > 92%  |       |
| Maximum rated current          | A                              |         | 2.3(1.5kVA), 4.6(3kVA), 6.8(4.5kVA), 9.1(6kVA), 13.7(9kVA), 22.8(15kVA), 30.4(20kVA), 45.6(30kVA), 68(45kVA), 91(60kVA)  |       |
| Certification                  |                                |         | CE   |       |
| Standard                       |                                |         | EN61000-6-2/ EN61000-6-4/EN61558-1   |       |

\* Please consult us.

## VOLTAGE STABILIZERS

# HSBW Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



### Range Presentation

HSBW is Himel range of three-phase servo motor type voltage stabilizers. It's up to 2000KVA with high accuracy.

### Online Content



HSBW

### Selection Code

| Model       | Power Rating  | Display   | Input Voltage  | Output Voltage  |
|-------------|---|---|--|---|
| <b>HSBW</b> | <b>10</b>   | <b>E</b>  | <b>I250</b>  | <b>O400</b>   |
| <b>HSBW</b> | <b>10:</b> 10kVA<br><b>15:</b> 15kVA<br><b>30:</b> 30kVA<br><b>50:</b> 50kVA<br>...<br><b>1000:</b> 1000kVA<br><b>1600:</b> 1600kVA<br><b>2000:</b> 2000kVA | <b>Default:</b> Dial meter display<br><br><b>E:</b> LED display<br><br><b>MLCD:</b> Multifunction meter (LCD) display | <b>Default:</b> I/ 304-456V<br><br><b>I250:</b> Input 250~423V | <b>Default:</b> Output 380V<br><br><b>O400:</b> Output 400V |

### Technical Parameters

| Three Phase Compensation Voltage Stabilizer |                                |          | HSBW   |
|---|--------------------------------|----------|--|
| Type  |                                |          | HSBW Three-Phase Compensation AC Voltage Stabilizer  |
| Rated capacity                              |                                | kVA      | 10-2000  |
| Output voltage                              | Accuracy of stabilized voltage | V        | 380 (or 400) $\pm 3\%$   |
|   | Undervoltage protection        | V        | 320 (or 340) $\pm 7$   |
|   | Overvoltage protection         | V        | 425 (or 445) $\pm 7$   |
| Range of input voltage                      |                                | V        | 304-456 ( or 320-480)  |
| Customized input range                      |                                | V        | 250-423 or 304-470   |
| Extended function*                          |                                | Optional | By-pass<br>Fan<br>Input undervoltage protection<br>Overload protection<br>Phase failure protection<br>Temperature rise protection<br>Time delay<br>Surge protector |
| Voltage-regulating speed                    |                                | s        | <1 (variation of input voltage is 10%)   |
| Temperature rise                            |                                | K        | <60  |
| Ambient temperature                         |                                | °C       | -5°C~+40°C   |
| Frequency                                   |                                | Hz       | 50/60  |
| Display mode                                |                                |          | Dial Meter (Panel Meter) or LED or LCD   |
| Insulation resistance                       |                                | MΩ       | $\geq 5$   |
| Withstand voltage                           |                                | V/1min   | 2000   |
| Efficiency                                  |                                |          | $\geq 95\%$  |
| Standard                                    |                                |          | EN61000-6-2/ EN61000-6-4/EN61558-1   |

\* Please contact local Himel sales

## VOLTAGE STABILIZERS

# HSBW Voltage Stabilizers

Standard: EN61000-6-2, EN61000-6-4, EN61558-1



### Portfolio for HSJW & HSBW (not customized type)

| product series  |                        | HSJW   | HSBW  |
|-----------------|------------------------|--|---|
| Characteristics | Description            | Three phase full automatic AC voltage stabilizer |   |
|                 | Capacity               | 1.5,3,4.5,6,9,15,20,30,45,60kVA                  | 10,15,30,50,100,150,200,250,300,400,500,600,800,1000,1600,2000kVA |
|                 | Type                   | Servo motor                                      | Servo motor   |
|                 | Standard               | EN 61000-6-2,61000-6-4,61558-1                   |   |
|                 | Certification          | CE   | -   |
| Protection      | Oversvoltage           | √  | √   |
|                 | Temperature rise       | *  | *   |
|                 | Overload               | *  | *   |
|                 | Undersvoltage (output) | *  | √   |
|                 | Short circuit          | √  | √   |
|                 | Time delay             | *  | *   |
|                 | By-pass                | *  | *   |

#### Note:

(1) "\*" means optional functions for this series, which is required to be customized with higher cost;

(2) Even through overload protection is not the standard one for all series, short circuit protection can help the system protect against overload issue at a certain level.

### Spare Parts List - for HSBW

√ Servo motor    √ Carbon brush head    √ PCB    √ Limit switch    √ Screen



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