

# Specification

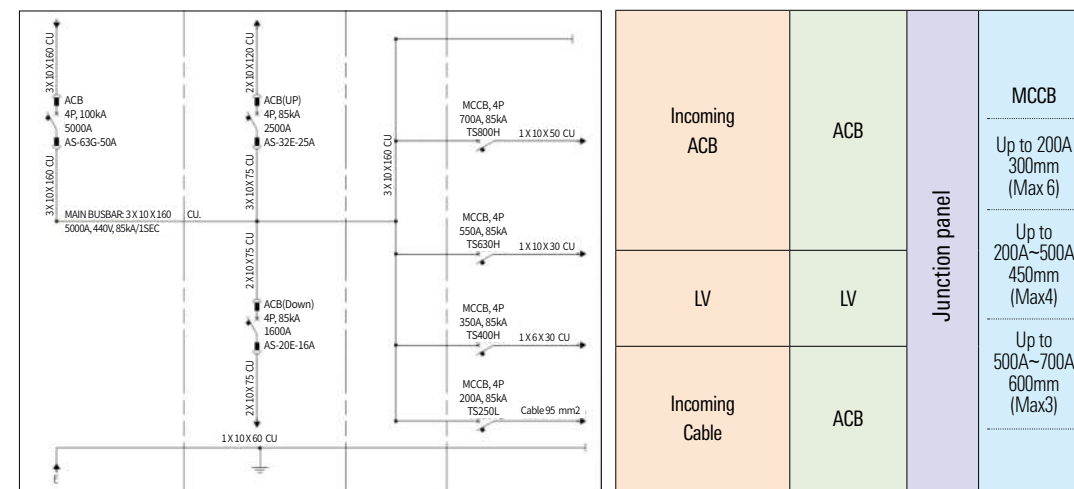
## Technical data

Description	Susol LV Switchgear - MDB	
	ACB Panel	MCCB Panel
Rated operating voltage	690V	440V
Rated frequency	50/60Hz	50/60Hz
Busbar (Rated current)	Main 2000, 2500, 3200, 4000, 5000 Vertical 1800, 2000, 2500, 3200, 4000, 5000	
Rated short time withstand current	Up to 100 kA/1sec, 65kA/3sec	
Rated insulated voltage	1000V	750V
Rated impulse withstand voltage	12kV	8kV
Form of internal separation	Form 4b	
Degree of protection	Up to IP43	
Standard	IEC 61439-1 & 2	

## Ratings & dimensions

ACB	Rating		Dimension		
	Current	Icc(at 690V)	Wide	Depth	Height
Metasol	AS-63G-50A	5000	100kA	1200	2200
	AS-50F-40A	4000	85kA	1000	
	AS-40E-32A	3200	85kA	800	
	AS-32E-25A	2500	85kA	800	
	AS-25E-20A	2000	85kA	800	
	AS-20E-16A	1600	85kA	800	
Compact ACB	AH-16V-13A	1250	85kA	600	

MCCB	Rating		Dimension		
	Current	Icc(at 440V)	Wide	Depth	Height
Susol	TS1600	1250	65kA	700	1200
	TS800	700	85kA		
	TS630	550	85kA		450
	TS400	350	85kA		
	TS250	200	85kA		
	TS160	160	85kA		300
	TD160				
	TS100				
TD100	100	85kA			
Metasol	ABL804C	700	85kA	700	1200
	ABL604C	550	85kA		
	ABL404C	350	85kA		450
	ABH204C	200	50kA		
	ABH104C	100	50kA		300



\* 1set of junction panel (width 300 or 500mm) is required when MCCB panel connected with LV panel

\* MCCB panel should be constructed within 1800 mm

# Susol Super Solution LV MDB Switchgear

Low Voltage Main Distribution Switchgear



### Safety Instructions

- For your safety, please read user's manual thoroughly before operating.
- Contact the nearest authorized service facility for examination, repair, or adjustment.
- Please contact qualified service technician when you need maintenance. Do not disassemble or repair by yourself!
- Any maintenance and inspection shall be performed by the personnel having expertise concerned.



• According to The WEEE Directive, please do not discard the device with your household waste.



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**Technical Question or After-sales Service**  
Customer Center-Quick Responsive Service, Excellent technical support **82-1644-5481**



**Susol** Super Solution

# LV MDB Switchgear

Susol LV MDB switchgear is designed and produced to construct high quality power system. With high performance and high quality that complied with IEC 61439-1&2, it can be applied to many kinds of industrial fields.

### Stability and reliability

- Complied with IEC 61439-1&2 standard
- Obtain ASTA certificate of verification tests
  - The certification tests for all ratings are completed



### Safety and convenience

- Internal arc-tested design
  - Tested in conformity with the technical report IEC 61641 (85kA / 0.5s)
- Degrees of protection
  - IP43(outside), IP2X(inside)
  - Mechanical impact : IK07
- Form 4b structure
  - Prevention fault spread by metal and insulated partitions
- Heat flow structure
  - Sufficient ventilation structure both inside and outside
  - Specially designed arc release cover for heat dissipation

### Compact size and flexible structure

- Main busbars are located in the middle section of MDB
  - Easy to place two ACBs on the panel
  - Panel size reduction than others
- Modular structure, excellent assemblability

### Adopted LSIS ACB & MCCB

- LSIS low voltage devices are complied with the applicable standards
  - ACB : Fully lined-up up to 6300A and 150kA
  - MCCB : Fully lined-up up to 1600A and 150kA@415Vac

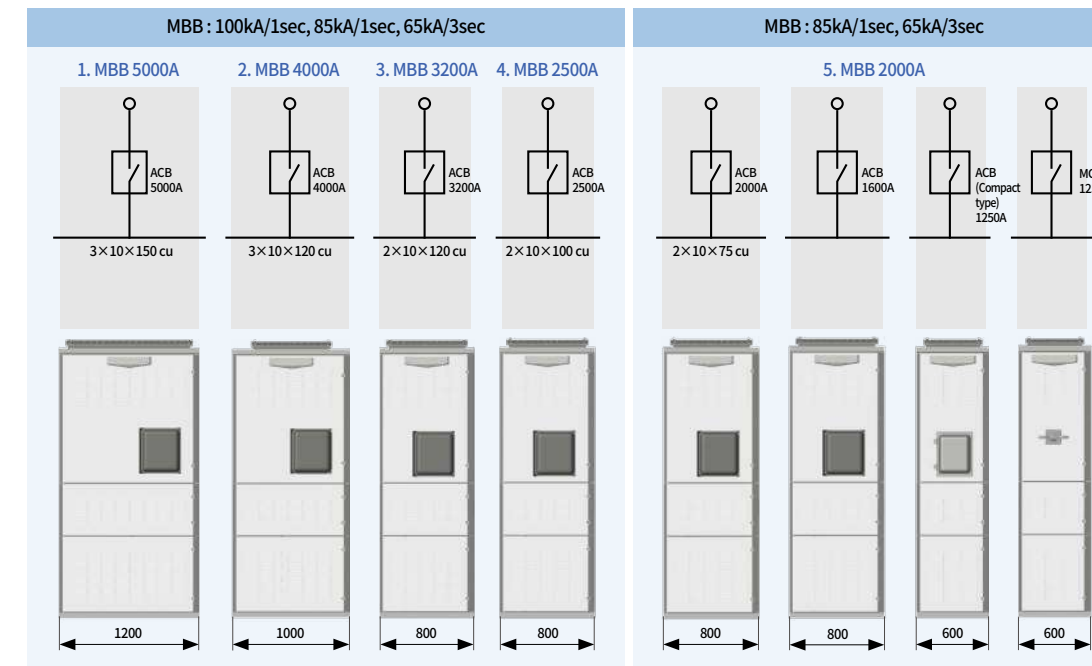
### Applications

- Manufacturing industry
- Small size power plants
- Airport and railway
- Water and wastewater
- Commercial and residential complexes
- Hospitals, hotels, resort and shopping malls

## Configuration

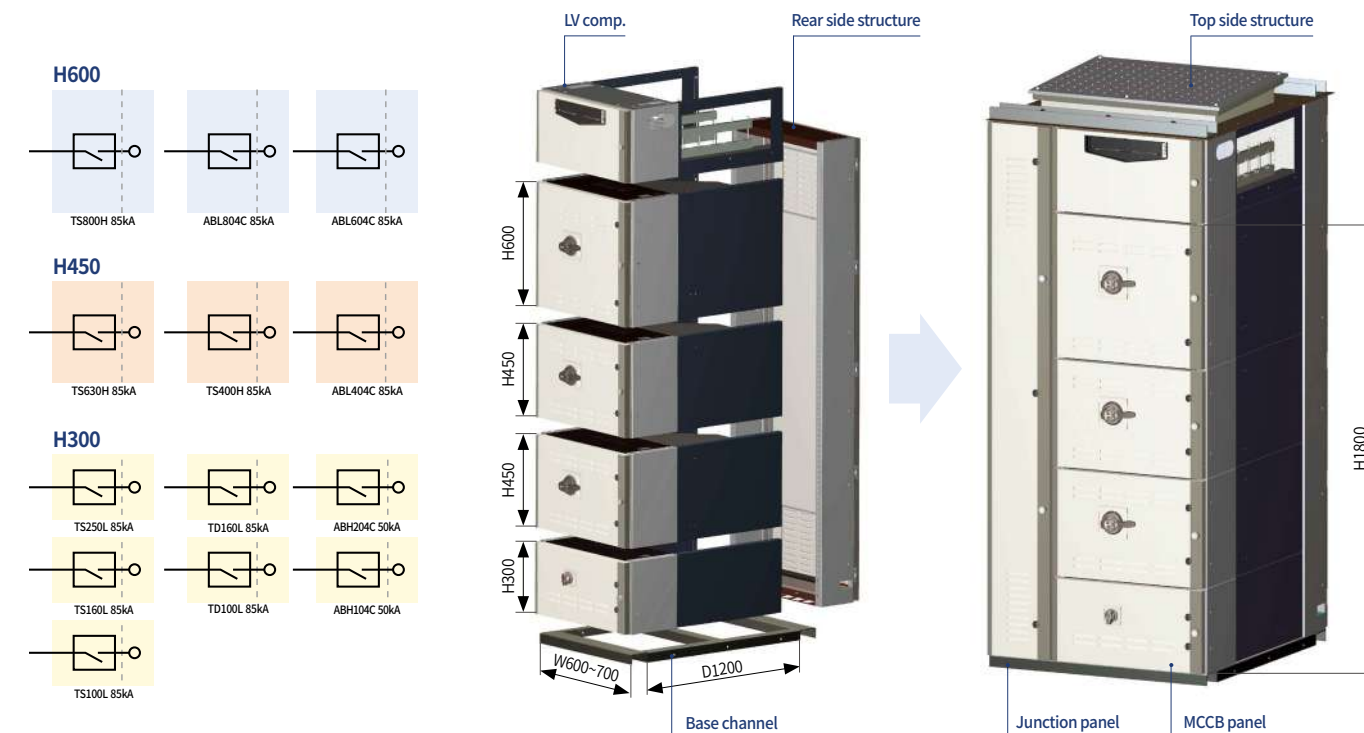
### Main panel

All panels have the same structure and are compatible.



### MCCB panel

Susol and Metasol MCCB 13 species are freely compatible with each other within 1800mm height. MCCB panel must be configured with a junction panel (wide 300mm or 500mm).



## Partnership

Becoming an advanced global partner means increasing the partner's value through following works in your place.

### 1st partnership

If you become a "Assembly manufacturer", LSIS will provide consulting services and technical assistance according to the stage of business.



### Support & services for 1st partnership

- |  |   |                          |
|--|---|--------------------------|
| <p>Technical documentation</p> <ul style="list-style-type: none"> <li>• Design drawings</li> <li>• Assembly guide / manual</li> <li>• Operation &amp; maintenance</li> </ul> | <p>Production training &amp; support</p> <ul style="list-style-type: none"> <li>• Technical training</li> <li>• Assembly training</li> <li>• Inspection training</li> </ul> | <p>Test certificates</p> |
|--|---|--------------------------|

### 2nd partnership

If you want to become a "Original manufacturer", LSIS will also support you.

