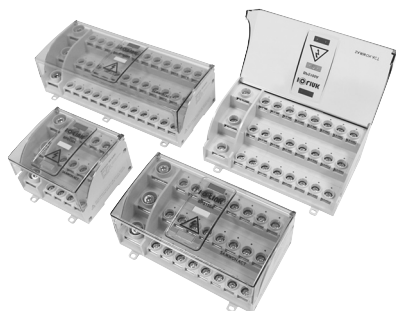


## BPS Series Wiring Type Busbar Type Power Distribution Block

### User's Guide



Thank you for purchasing product of SAMWON ACT.  
Please check model of product that you purchase first, and read this manual prior to use it.

#### ● Caution for Safety

- ⚠ Caution** Case that results in serious damage in human body or equipment, and fire if user handles this equipment wrongly
- ⚠ Warning** Case that results in slight damage in human body or equipment, and fire if user handles this equipment wrongly

#### ⚠ Caution

- Do not allow foreign substances such as dust or wire sheath to enter the connection terminals. It may cause damage, fever, and ignition of the main body.
- When installing or wiring, please cut off the external power supply or circuit breaker first. It may cause electric shock or short circuit accidents.

#### ⚠ Warning

- Use within the specified temperature range. (-25°C ~ +55°C)  
Damage to the outer case may occur.
- Use within the specified rated voltage and rated current range.  
This may result in fire or damage.
- When wiring, please tighten it with the specified torque using the appropriate tool.  
If it is outside of this range torque, it may cause malfunction due to breakage or looseness of tightening surface terminal.

#### ● Model Configuration BPS 100A - M6 / 4 \* M5

Classification	Series
BPS	Wiring Type Busbar Type Power Distribution Block
Classification	Rated Capacity
100A	600V 100A
150A	600V 150A

Classification	Secondary-side Terminal Screw (Each phase)
4*M5	M5 * 4ea
8*M5	M5 * 8ea
12*M5	M5 * 12ea
Classification	Primary-side Terminal Screw (Each phase)
M6	M6 * 1ea
M8	M8 * 1ea

#### ● Model Selection

Model	Rated Capacity	Ratings (IEC wire)		Terminal Screw (Each phase)		Dimensions <sup>(Note)</sup> (W × D mm)	Mounting method	
		Primary-side	Secondary-side	Primary-side	Secondary-side			
BPS100A-M6/4 × M5	600V 100A	25mm <sup>2</sup> [100A]	4~16mm <sup>2</sup>	Total 100A or less	M6 × 1ea	M5 × 4ea	116 × 105	Screw mounting, DIN Rail (Channel)
BPS100A-M6/8 × M5					M5 × 8ea	184 × 105		
BPS100A-M6/12 × M5					M5 × 12ea	252 × 105		
BPS150A-M8/4 × M5	600V 150A	50mm <sup>2</sup> [150A]		Total 150A or less	M8 × 1ea	M5 × 4ea	116 × 105	
BPS150A-M8/8 × M5					M5 × 8ea	184 × 105		
BPS150A-M8/12 × M5					M5 × 12ea	252 × 105		

(Note) Vertical dimensions exclude mounting holes.

#### ● Rated current for wiring sectional area (IEC Standard)

Cross-section mm <sup>2</sup>	1	1.5	2.5	4	6	10	16	25	35	50
AWG/kcmil	17	16	14	12	10	8	6	4	2	0
Rated current [A]	13.5	17.5	24	32	41	57	76	101	125	150

#### ● Appropriate tool

Model	Primary-side	Secondary-side
BPS100A-M6/4 * M5	⊕ PH2	⊕ PH2
BPS100A-M6/8 * M5		
BPS100A-M6/12 * M5		
BPS150A-M8/4 * M5	⊕ 6mm	
BPS150A-M8/8 * M5		
BPS150A-M8/12 * M5		

#### ● Material/Specification

Case	Modified PPO
Protective cover	Polycarbonate
Pin header	Brass / Nickel-Plated
Ambient temperature	-25°C ~ +55°C (No condensation)
Temperature rise	Temperature rise of conductive bracket 45°C or less
Dielectric strength	2,500V 1min

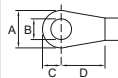
#### ● Terminal Screw Appropriate Rating

Screw	Mounting Torque	Applicable wire
M5	2.2 N·m	AWG 12~6
M6	4.0 N·m	AWG 10~4
M8	8.0 N·m	AWG 8~0

#### ● Applicable crimp terminal

Terminal	A(MIN)	B(MAX)	C(MIN)	D(MAX)
M5	13.0	5.0	9.0	8.7
M6	18.5	6.0	8.0	10.2
M8	23.5	8.0	11.0	13.2
M8 (Side)	22.5	8.0	19.0	19.5

● Use UL-approved products for crimp terminals.



※ The above specifications are subject to change without notice.  
※ Please contact HQ or branch office where you purchased product for A/S of this product or technique.

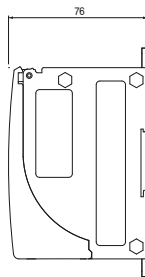
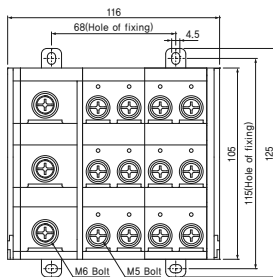


**삼원ACT(주)**  
SAMWON ACT Co., Ltd.

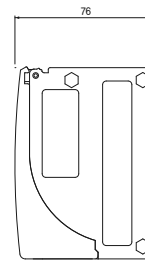
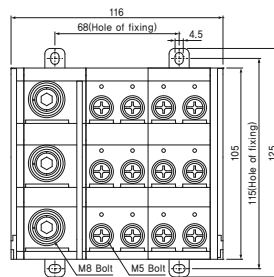
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## • Dimension

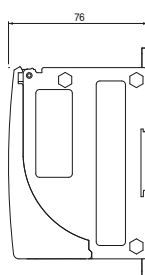
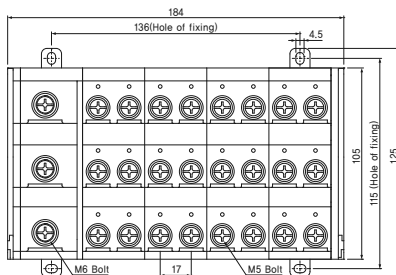
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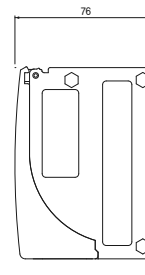
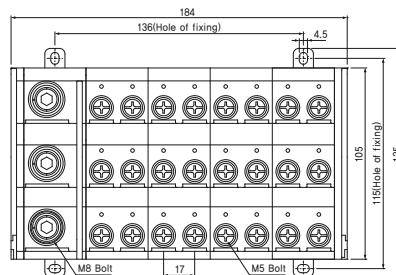
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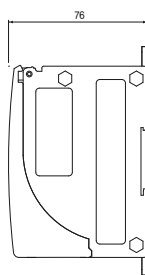
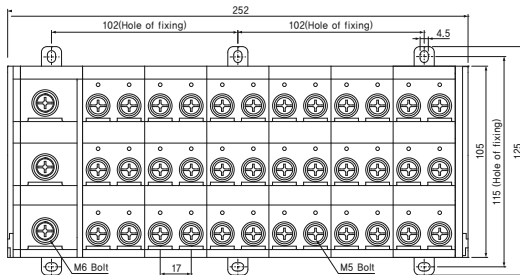
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### • BPS150A-M8/8\*M5



### • BPS100A-M6/12\*M5



### • BPS150A-M8/12\*M5

