MH0301E140305

Power supply

PS series

INSTRUCTION MANUAL

Thank you for purchasing HANYOUNG product. Please check whether the product is the exactly same as you ordered.

Before using the product, please read this instruction manual carefully.

Please keep this manual where you can view at any time

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Safety information-

Before using the product, please read the safety information thoroughly and use it properly. Alerts declared in the manual are classified to Danger, Warning and Caution by their criticality

	DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury
A WARNING	WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury
	CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury

\land Danger

Do not touch or contact the input terminals because they cause electric shock.

A Warning

- · The contents of this manual may be changed without prior notification.
- Please install an appropriate protective circuit on the outside if malfunction or an incorrect operation may be a cause of leading to a serious accident,
- This product doesn't have power switch so it should be installed separately outside.
 Prior to using this product, accordingly the capacity of required purpose should be
- considered.To prevent electric shock or malfunction of product, do not supply the power until the wiring is completed.
- Please do not dissemble, manufacture, reform and reparir this equipment. It leads to abnormality of movement, electric shock, and fire.
- · Do not use this product which required flammable and explosive gas in an area.
- To prevent electric shock or malfunction of product, do not supply the power until the wiring is completed.
- Please turn off the power when mounting / dismounting of the product. This is a cause of electric shock, malfunction, or failure.
- To prevent defection or malfunction of this product, supply proper power voltage in accordance with the rating.
- · Please use this product after installing in the panel to prevent electrical shock.

A Caution

· Please use this product within 100 % of the rated output to prevent damage or trouble.

- This product should be used on only the indicated rated input voltage.
- The capacity of the voltage and current is depending on the type of the wiring cable so this product should be connected in an appropriate connectable wire.
- The ground terminal must be installed on to prevent electric shock or electromagnetic wave.
- · Foreign materials can be damage or malfunction in case of entering into the product.
- Blowing fuse in inside of the product can cause chain damage or malfunction to the other parts, Thus, repair should be required promptly.
- This product has a certain level of leakage current. So it should be used with extreme caution when using multiple units in parallel because the sum of the leakage current is larger value.
- · Please be cautious in high voltage in inside of the product to prevent electrical shock.
- Please do not use it at the following locations for the safety and reliability of the product.
 Easy to reach to water and fire place
- · High ambient temperature and non-ventilated place
- \cdot Lots of debris materials and dust place
- \cdot Volatile and flammable substances place
- · High humid place
- \cdot lots of vibration and shock place

Suffix code -

Model	Code			Description	
DPS-		□-		DPS Power supply (DIN Rail Type)	
Power output	15			15W, 30W, 50W, 75W, 100W, 120W, 180W 240W	
Number of output volta	Number of S S			1 output	
			05	5 V DC (DPS-75S, DPS-100S, DPS-120S, DPS-180S, DPS-240S are excluded)	
Output voltage			12	12 V DC (DPS-180S are excluded)	
		Dutput voltage 15		15 V DC (DPS-75S, DPS-100S, DPS-120S, DPS-180S, DPS-240S are excluded)	
			24	24 V DC	
			48	48 V DC (DPS-15S, DPS-30S, DPS-50S are excluded)	

Function

Rated input voltage

Input voltage	Frequency	Model			
100 – 240 V AC (Free voltage)	50 – 60 Hz	DPS-15S, DPS-30S, DPS-50S, DPS-75S, DPS-100S			
100 - 120 / 200 - 240 V AC (Auto-select input)	50 – 60 Hz	DPS-120S, DPS-180S, DPS-240S			

* Auto-select input?

Automatically input voltage selected regardless of input voltage 100 - 120 V AC or 200 - 240 V AC.(Dual use)

Adjustable Output voltage

Output voltage can be adjustable by adjustable resistance inside of the product. (more than ± 5 % of rated output voltage)

Limited Inrush Current

This product has inrush current limit circuit but it should be considered carefully when selection of the external switch or fuse.

Short-Circuit Protection

When the output terminals shorted, the output is blocked. After eliminating the reason of short, voltage is output automatically.

Over–Voltage Protection

When the output voltage is reached at 115 to 140 % of the rated voltage. Blocking the current flow to protect the outside of the connected equipment and system.

Over-Current Protection

When the output current exceeds the rated capacity, activate this protection to stop output. After eliminating the reason of over-current, the output voltage is restored automatically.

Over-Temperature Protection

When PWM controller junction temperature reaches to 135 \sim 140 °C, this protection automatically stops switching to prevent components damage due to overheating.

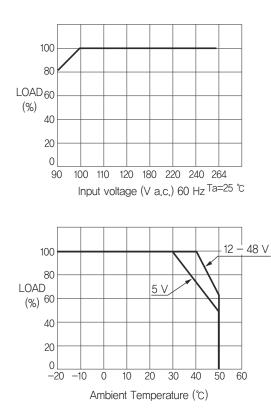
Ripple Noise

Wiring should be shortened to reduce induction noise. Please use after reducing ripples noise sufficiently.

Product Wiring -

Name of Terminal		Description					
Input Terminal	AC(L) AC(N)	AC Output Terminal					
Terminar	Ð	Protective Earth Terminal					
	+V OUT	DC Quitou t Torminol					
	-V OUT	DC Output Terminal					
Output terminal	COM	Relay Output Terminal (250 V AC, 1A, 30 V DC, 1A)					
torrininai	NC	ON : more than 85 % of the rated output voltage lights on					
	NO	OFF : Less than 85 % of the rated output voltage turns off					

Please check carefully how to connect depending on model. (different connection depending on models)

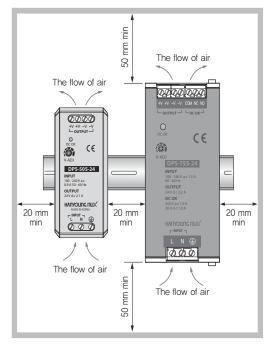


Installation instructions and precautions

- Do not force the product after installation. (Max 20 N)
- Please strip wire cover 6 \sim 7 mm when wiring.
- standard of wire

Model	Multiple wire	Single wire	
DPS-15S		AWG 22 \sim 12 (0.33 \sim 3.3 mm)	
DPS-30S	AWG 22 \sim 12 (0.33 \sim 3.3 mm²)		
DPS-50S			
DPS-75S		AWG 30 \sim 12 (0.05 \sim 3.3 mm)	
DPS-100S	AWG 30 \sim 12 (0.05 \sim 3,3 m²)		
DPS-120S	AWG 30 / 12 (0.05 / 3.3 IIII)		
DPS-180S			
DPS-240S	AWG 24 \sim 10 (0.2 \sim 5.26 mm²)	AWG 24 \sim 10 (0.2 \sim 5.26 mm²)	

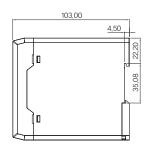
 In order to improve long-term reliability, the product should be install vertically and make more enough space as 50 mm vertically and 20 mm horizontally. Airfan is recommended to flow air circulation.



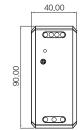
Dimensions

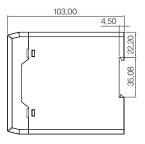
DPS-15S





DPS-30S / DPS-50S





DPS-75S / DPS-100S

