

# Multi Way Thermally Fused PSUs



When traditional fuses are being used for over current protection it can only protect once then it must be replaced. The PTC resettable fuse is a new-type of over current protection element which has two functions providing over current protection and automatic reset. The over current protection PTC element is serially connected to the circuit and under normal circumstances it provides a low resistance state and can ensure the normal working of the circuit. If a short circuit or unusually high current occurs, the PTC fuses cut in to reduce the voltage down to a trickle thus preventing damage and protecting the equipment. The PTC fuse will automatically reset once the fault in the over current is removed. The PTC elements will automatically return to its low resistance state, which not only avoids maintenance or replacement but also avoids a continuously circulating switching state which can cause circuit damage.

	<b>HAY-PSU412-5A</b>	<b>HAY-PSU412-10A</b>	<b>HAY-PSU912-5A</b>	<b>HAY-PSU912-10A</b>	<b>HAY-PSU1612-10A</b>	<b>HAY-PSU1612-20A</b>
Input Voltage	187-253V Rated 3amp main fuse	187-253V Rated 3amp main fuse	187-253V Rated 3amp main fuse	187-253V Rated 3amp main fuse	187-253V Rated 3amp main fuse	187-253V Rated 3amp main fuse
Outputs	4 x 12VDC Outputs	4 x 12VDC Outputs	9 x 12VDC Outputs	9 x 12VDC Outputs	16 x 12VDC Outputs	16 x 12VDC Outputs
Maximum Output	5 Amps	10 Amps	5 Amps	10 Amps	10 Amps	20 Amps
Auto Reset PTC Fuse for each Output	Max Per Output 1.6 Amps Not exceeding 5 Amps Total Output	Max Per Output 2.5 Amps Not exceeding 10 Amps Total Output	Max Per Output 1.1 Amps Not exceeding 5 Amps Total Output	Max Per Output 1.1 Amps Not exceeding 10 Amps Total Output	Max Per Output 1.1 Amps Not exceeding 10 Amps Total Output	Max Per Output 1.6 Amps Not exceeding 20 Amps Total Output
Regulated & Filtered	✓	✓	✓	✓	✓	✓
Surge Protected	✓	✓	✓	✓	✓	✓
Internal ON/OFF Power Switch	✓	✓	✓	✓	✓	✓
Individual LED Output Indicators	✓	✓	✓	✓	✓	✓
Dimensions (D x W x H)	9 x 21 x 24.5 cm Weight 2.2kg	19 x 21 x 24.5 cm Weight 2.2kg	19 x 21 x 24.5 cm Weight 2.2kg	19 x 21 x 24.5 cm Weight 2.2kg	19 x 21 x 24.5 cm Weight 2.2kg	19 x 21 x 24.5 cm Weight 2.2kg
CE & RoHS Compliant	✓	✓	✓	✓	✓	✓

	<b>HAY-PSU4/1-1/424V</b>	<b>HAY-PSU2/2A24V</b>	<b>HAY-PSU4/2-2/424V</b>	<b>HAY-PSU1-1/8A24V</b>
Input Voltage	AC230V/50Hz Rated 3amp main fuse	AC230V/50Hz Rated 3amp main fuse	AC230V/50Hz Rated 3amp main fuse	AC230V/50Hz Rated 3amp main fuse
Outputs	Dual Outputs 4x1A or 1x4A 24VAC	2 x 2A 24VAC	Dual Outputs 4x2A or 2x4A 24VAC	Dual Outputs 8x1A or 1x8A 24VAC
Maximum Output	4 Amps	4 Amps	8 Amps	8 Amps
Auto Reset PTC Fuse for each Output	Max Per Output 4X1A – 1.1Amps 1X4A – 4Amps* 4Amps Total Output*	Max Per Output 2X2 --2Amps *4 Amps Total Output*	Max Per Output 4X2A – 2Amps 2X4A – 4Amps *8 Amps Total Output*	Max Per Output 8X1A--1.1Amps 1X8A – 8Amps * 8Amps Total Output *
Regulated & Filtered	✓	✓	✓	✓
Surge Protected	✓	✓	✓	✓
Internal ON/OFF Power Switch	✓	✓	✓	✓
Individual LED Output Indicators	✓	✓	✓	✓
Dimensions (D x W x H)	10 x 21.5 x 25 cm Weight 3.6kg	10 x 21.5 x 25 cm Weight 3.6kg	10 x 21.5 x 25 cm Weight 4.8kg	10 x 21.5 x 25 cm Weight 4.8kg
CE & RoHS Compliant	✓	✓	✓	✓

# Inline & IP rated PSUs

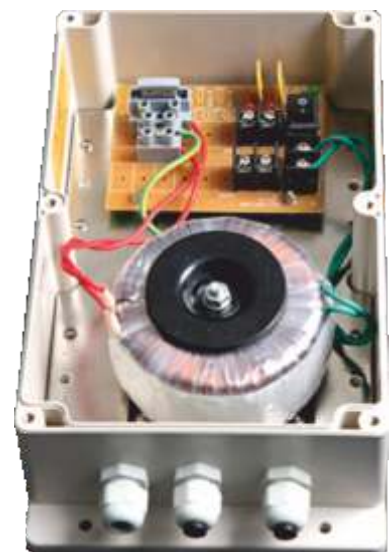
## Inline 12VDC/24VAC PSU



	1AMP/24V AC	2AMP/24V AC	1.5AMP/12V DC	5AMP/12V DC
Input Range	230VAC	230VAC	100 - 230VAC	100 - 230VAC
Input Frequency	50	50	50/60	50/60
Leakage Current	<0.5Ma	<0.5Ma	>0.25mA	>0.25mA
Rated output power	24VA	48VA	18W	60W
Output Voltage	24 VAC ±5%	24 VAC ±5%	12V DC	12V DC
Output Current	1 Amp	2 Amps	1.5 Amps	5 Amps
Output Load Efficiency	>70%Min	>70%Min	>75%Min	>80%Min
Adjustment range	Fixed	Fixed	Fixed	Fixed
Insulation Class	B (130C)	B (130C)	B (130C)	B (130C)
Protection Class	IP20	IP20	IP20	IP20
EMC test	EN55014-1/-2 EN61000-3-2/-3-3	EN55014-1/-2 EN61000-3-2/-3-3	En55022	En55022
Safety Approval	BS EN61558-1/-2-6	BS EN61558-1/-2-6	BS EN60065	BS EN60065
Operating Temp	-10C to 40C	-10C to 40C	-10C to 40C	-10C to 40C
Storage Temp	-20C to 70C	-20C to 70C	-20C to 70C	-20C to 70C
Operating Humidity	0% to 90% RH	0% to 90% RH	0% to 90% RH	0% to 90% RH
Size (LxWxH)	89.5 X 68 X 58.5mm	105 X 92.5 X 65mm	90 X 50 X 31mm	118 X 60 X 38mm
Cable Length	3.8m	3.8m	3.6m	3.6m
UK plug & 2.1mm socket	Fixed	Fixed	Fixed	Fixed

## IP Rated 24VAC PSU

	HAY-IP-24VPSU-1X4A Polycarbonate IP Box	HAY-IP-24VPSU-2X2A Polycarbonate IP Box
Input Voltage	AC230V/50Hz Rated 3amp main fuse	AC230V/50Hz Rated 3amp main fuse
Outputs	1 X 4Amp PTC Fused	2 X 2Amp PTC Fused
Maximum Output	4 Amps	4 Amps
Current Consumption	Approx 100VA	Approx 100VA
Output Voltage	24VAC	24VAC
Regulated & Filtered	✓	✓
Surge Protected	✓	✓
Internal ON/OFF Power Switch	✓	✓
Individual LED Indicators	✓	✓
Dimensions	9 x 27 x 15 cm Weight 2.8kg	9 x 27 x 15 cm Weight 2.8kg
CE & RoHS Compliant	✓	✓
IP Rating	IP66	IP66



All Models:- Storage Temp -20 to 85C  
 Operating Temp -10 to 40C  
 Operating Relative Humidity 0-90% Non Condensing