

Switched Mode Power Supply



- Universal input voltage range
- Adjustable output voltage
- High Noise Immunity & Low Ripple
- High MTBF > 1,300,000 hrs
- Overload, Over voltage, Short Circuit & Over Temperature Protection
- CE, UKCA, RoHS Certified
- High Efficiency of Operation
- Wide operating temperature - 30°C to 70°C
- Peak Power Capacity
- Ultra-low standby power (<0.3W)
- Low profile design



Ordering Information

	Cat ID	Description
Coming Soon	PS35W24V	35W, 90 - 264 VAC, 24 VDC, 1.5A, Terminal Block Facing Upward
Coming Soon	PS35W12V	35W, 90 - 264 VAC, 12 VDC, 3A, Terminal Block Facing Upward
Coming Soon	PS50W24V	50W, 90V - 264V AC, 24 VDC, 2.2 A, Terminal Block Facing Upward
New	PS50W12V	50W, 90V - 264V AC, 12 VDC, 4.2 A, Terminal Block Facing Upward
Coming Soon	PS75W24V	75W, 90V - 264V AC, 24 VDC, 3.2 A, Terminal Block Facing Upward
Coming Soon	PS75W12V	75W, 90V - 264V AC, 12 VDC, 6 A, Terminal Block Facing Upward

Switched Mode Power Supply



Technical Datasheet

Cat. No.	PS35W24V	PS35W12V
Input Supply Characteristics		
Supply Voltage Range	90V to 264V AC & 120V to 373V DC	
Frequency Range	47 - 63 Hz	
Efficiency	88% Typ.	86% Typ.
AC Current	0.7A typ. @ 115V AC & 0.42A typ. @ 230V AC	
Inrush Current	Cold start 45A @ 230V AC	
No Load Power Consumption	<0.3W @ 230V AC	
Insulation Voltage	250V	
Output Characteristics		
Output DC voltage	24 V DC	12 V DC
Output DC voltage adjustment range	21.6 - 26.4 V DC	10.8 - 13.2 V DC
Output Current	1.5 A	3 A
Output Power	36 W	36W
Line Regulation	± 0.5% typ.	
Load Regulation	± 0.5% typ.	
Ripple & Noise	<150 mV p-p max.	
Startup Time	1000 ms typ. @ 115 Vac and 500 ms typ. @ 230 Vac	
Rise Time	30 ms typ. @ 115 Vac & 230 Vac	
Hold up time	16ms typ. @ 115Vac, 70ms typ. @ 230Vac	
Dynamic Response (Overshoot & Undershoot O/P Voltage)	± 10% @ 115 & 230Vac input, 10-100% load (Slew Rate: 2.5A/μS, 50% duty cycle @ 5Hz & 10KHz)	
Start-up with Capacitive Loads	8,000μF Max	
Protections		
Over Voltage	140% or higher of rated output voltage (Hiccup mode & Auto Recover after fault recovery).	
Over load/ Over current	110-175% of rated load current, Hiccup Mode, Non-Latching (Auto-Recovery)	
Over temperature	Hiccup mode & Auto Recover after fault recovery.	
Short circuit	Hiccup mode & Auto Recover after fault recovery.	
Protection against shock	Class 1 with Protection Earth connection.	
Internal Input Fuse	4A / 250V	
User Interface		
Pot	To set output voltage	
LED Indication		
Green LED	ON : DC O/P OK	
Environmental		
Operating Temperature	-30° C to + 70° C (Refer Derating curve)	
Storage Temperature / Humidity	-40° C to + 85° C	
Operating Relative humidity	10 to 90% RH(Non-Condensing)	
Operating Altitude	Up to 5000 meters (The ambient temperature derating of 5° C /1000m is needed for operating altitude > 2000m)	
Operating Positions	Vertical & Horizontal on Top	
Over voltage Category	III (Altitude upto 2000 meters)	
Pollution degree	3	
Vibration Test	Operating & Non-Operating as per : IEC 60068-2-6 5-500Hz : 5g, 60min.	
Mechanical		
Case chassis	Aluminium	
Dimensions (WxHxD)	98 X 82.4 X 30 mm(3.86 X 3.24 X 1.18 inch)	
Unit weight	184.8gm	
Cooling system	Convection	
Reliability		
MTBF	1,300,000 hrs hrs as per IEC 62380	
Certification	  	

Switched Mode Power Supply



Technical Datasheet

Cat. No.	PS50W24V	PS50W12V
Input Supply Characteristics		
Supply Voltage Range	90V to 264V AC & 120V to 373V DC	
Frequency Range	47 - 63 Hz	
Efficiency	88% Typ.	86% Typ.
AC Current	0.95A typ. @ 115V AC & 0.6A typ. @ 230V AC	
Inrush Current	Cold start 45A @ 230V AC	
No Load Power Consumption	<0.3W @ 230V AC	
Insulation Voltage	250V	
Output Characteristics		
Output DC voltage	24 V DC	12 V DC
Output DC voltage adjustment range	21.6 - 26.4 V DC	10.8 - 13.2 V DC
Output Current	2.2 A	4.2 A
Output Power	52.8 W	50.4 W
Line Regulation	± 0.5% typ.	
Load Regulation	± 0.5% typ.	
Ripple & Noise	<150 mV p-p max.	
Startup Time	1000 ms typ. @ 115 Vac and 500 ms typ. @ 230 Vac	
Rise Time	30 ms typ. @ 115 Vac & 230 Vac	
Hold up time	12ms typ. @ 115Vac, 60ms typ. @ 230Vac	
Dynamic Response (Overshoot & Undershoot O/P Voltage)	± 10% @ 115 & 230Vac input, 10-100% load (Slew Rate: 2.5A/µS, 50% duty cycle @ 5Hz & 10KHz)	
Start-up with Capacitive Loads	8,000µF Max	
Protections		
Over Voltage	115% or higher of rated output voltage (Hiccup mode & Auto Recover after fault recovery).	
Over load/ Over current	>110% of rated load current, Hiccup Mode, Non-Latching (Auto-Recovery)	
Over temperature	Hiccup mode & Auto Recover after fault recovery.	
Short circuit	Hiccup mode & Auto Recover after fault recovery.	
Protection against shock	Class 1 with Protection Earth connection.	
Internal Input Fuse	4A / 250V	
User Interface		
Pot	To set output voltage	
LED Indication		
Green LED	ON : DC O/P OK	
Environmental		
Operating Temperature	-30° C to + 70° C (Refer Derating curve)	
Storage Temperature / Humidity	-40° C to + 85° C	
Operating Relative humidity	20 to 90% RH(Non-Condensing)	
Operating Altitude	Up to 5000 meters (The ambient temperature derating of 5° C /1000m is needed for operating altitude > 2000m)	
Operating Positions	Vertical & Horizontal on Top	
Over voltage Category	III (Altitude upto 2000 meters)	
Pollution degree	3	
Vibration Test	Operating & Non-Operating as per : IEC 60068-2-6 5-500Hz : 5g, 60min.	
Mechanical		
Case chassis	Aluminium	
Dimensions (WxHxD)	98 X 82.4 X 30 mm(3.86 X 3.24 X 1.18 inch)	
Unit weight	184.8gm	
Cooling system	Convection	
Reliability		
MTBF	1,300,000 hrs as per IEC 62380	
Certification	CEUKCA  RoHS Compliant	

Switched Mode Power Supply

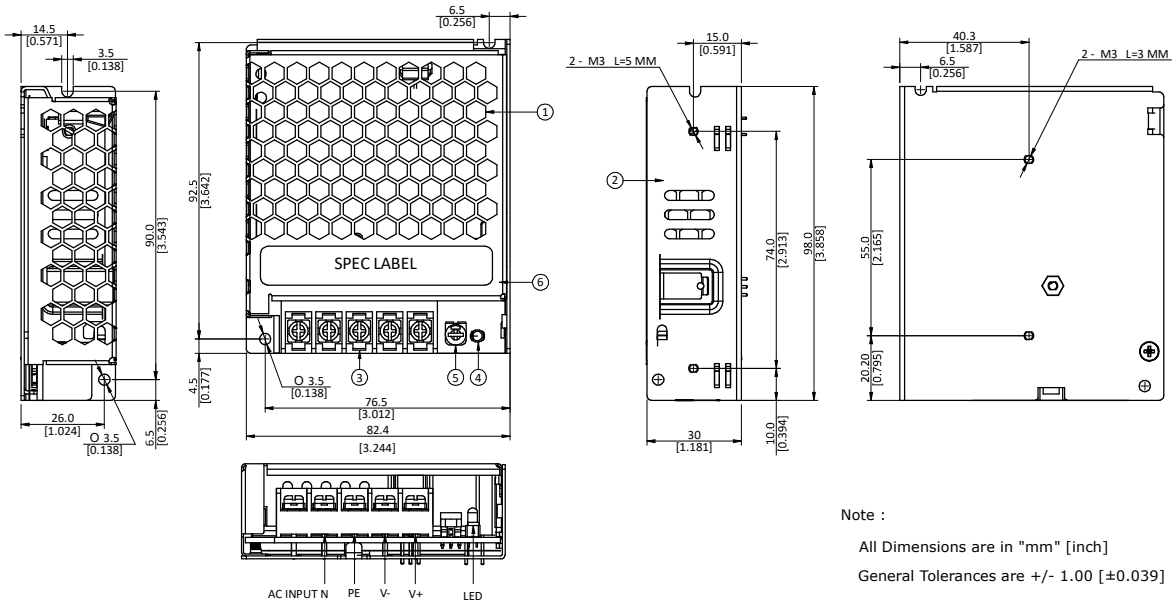


Technical Datasheet

Overall Dimensions

PS35W24V / PS35W12V / PS50W24V / PS50W12V

L X W X H : 98 x 82.4 x 30 mm (3.86 x 3.24 x 1.18 inch)



Note :

All Dimensions are in "mm" [inch]

General Tolerances are +/- 1.00 [±0.039]

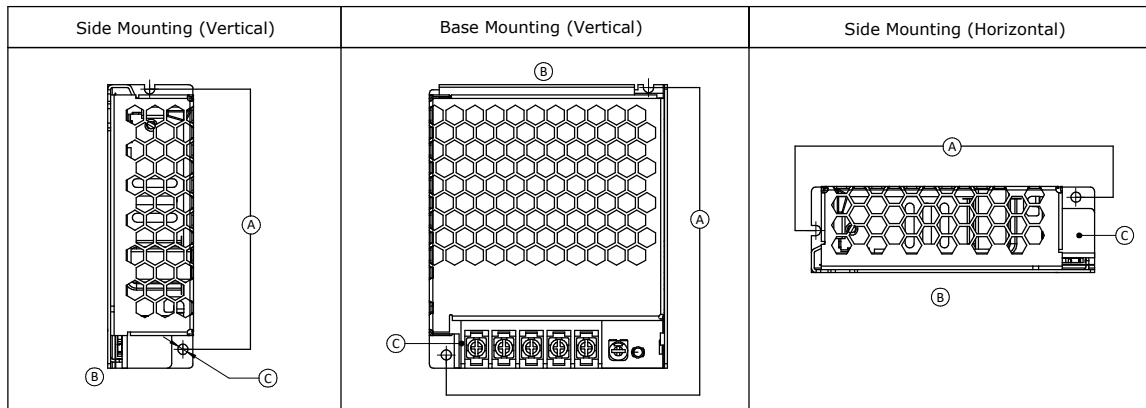
Assembly & Installation

A) Mounting holes for power supply assembly onto the mounting surface.

The power supply shall be mounted on minimum 2 mounting holes using M3 screw minimum 5 mm (0.20 inch) length.

B) This surface belongs to customer's end system or panel where the power supply is mounted.

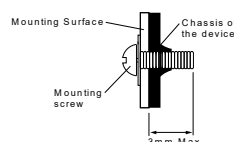
C) Connector



Terminal Details :

Tightening Torque	1.2 N.m. (10.6 lb.in.) Terminal Screw - M4	
Wire with lug	6 ~ 7mm Stripping length of wire	
Wire Range	22 to 12 AWG	4 mm ²

Installation Of Mounting Accessories :



- 1) Only use M3 screw ≤ 3 mm (0.24 inch) through the base mounting holes.
- 2) This is to keep a safety distance between the screw and internal components. Recommended mounting tightening torque: 0.5~0.6 N.m (4.42~5.31 lbf.in).

Switched Mode Power Supply

Technical Datasheet



Cat. No.

PS75W24V

PS75W12V

Input Supply Characteristics

Supply Voltage Range	90V to 264V AC & 127V to 373V DC	
Frequency Range	47 - 63 Hz	
Efficiency	88% Typ.	86% Typ.
AC Current	1.4A typ. @ 115V AC & 0.85A typ. @ 230V AC	
Inrush Current	65A @ 230V AC	
No Load Power Consumption	<0.3W @ 230V AC	
Insulation Voltage	250V	

Output Characteristics

Output DC voltage	24 V DC	12 V DC
Output DC voltage adjustment range	21.6 - 26.4 V DC	10.8 - 13.2 V DC
Output Current	3.2 A	6 A
Output Power	76.8 W	72 W
Line Regulation	± 0.5% typ.	
Load Regulation	± 0.5% typ.	
Ripple & Noise	<150 mV p-p max.	
Startup Time	500 ms typ. @ 115 Vac and @ 230 Vac	
Rise Time	30 ms typ. @ 115 Vac & 230 Vac	
Hold up time	11ms typ. @ 115Vac, 52ms typ. @ 230Vac	
Dynamic Response (Overshoot & Undershoot O/P Voltage)	± 10% @ 115 & 230Vac input, 10-100% load (Slew Rate: 2.5A/μS, 50% duty cycle @ 5Hz & 10KHz)	
Start-up with Capacitive Loads	8,000μF Max	

Protections

Over Voltage	115% or higher of rated output voltage (Hiccup mode & Auto Recover after fault recovery).
Over load/ Over current	>110% of rated load current, Hiccup Mode, Non-Latching (Auto-Recovery)
Over temperature	Hiccup and Autorecovery Mode
Short circuit	Hiccup mode & Auto Recover after fault recovery.
Protection against shock	Class 1 with Protection Earth connection.
Internal Input Fuse	4A / 250V

User Interface

Pot	To set output voltage
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LED Indication

Green LED	ON : DC O/P OK
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Environmental

Operating Temperature	-30° C to + 70° C (Refer Derating curve)
Storage Temperature / Humidity	-40° C to + 85° C
Operating Relative humidity	20 to 90% RH(Non-Condensing)
Operating Altitude	Up to 5000 meters (The ambient temperature derating of 5° C /1000m is needed for operating altitude > 2000m)
Operating Positions	Vertical & Horizontal on Top
Over voltage Category	III (Altitude upto 2000 meters)
Pollution degree	3

Vibration Test **Operating & Non-Operating as per** : IEC 60068-2-6 5-500Hz : 5g, 60min.

Mechanical

Case chassis	Aluminium
Dimensions (WxHxD)	99 X 97 X 30 mm(3.9 X 3.82 X 1.18 inch)
Unit weight	200.6gm
Cooling system	Convection

Reliability

MTBF	1,300,000 hrs hrs as per IEC 62380
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Certification



Switched Mode Power Supply

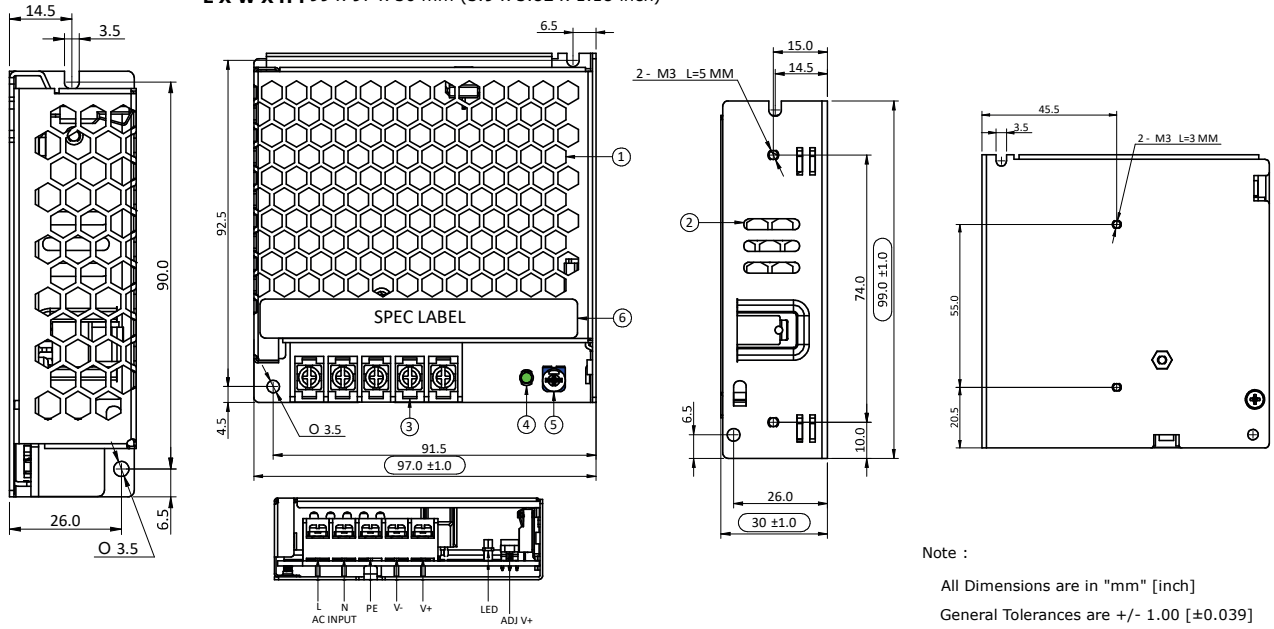
Technical Datasheet



Overall Dimensions

PS75W24V / PS75W12V

L X W X H : 99 x 97 x 30 mm (3.9 x 3.82 x 1.18 inch)



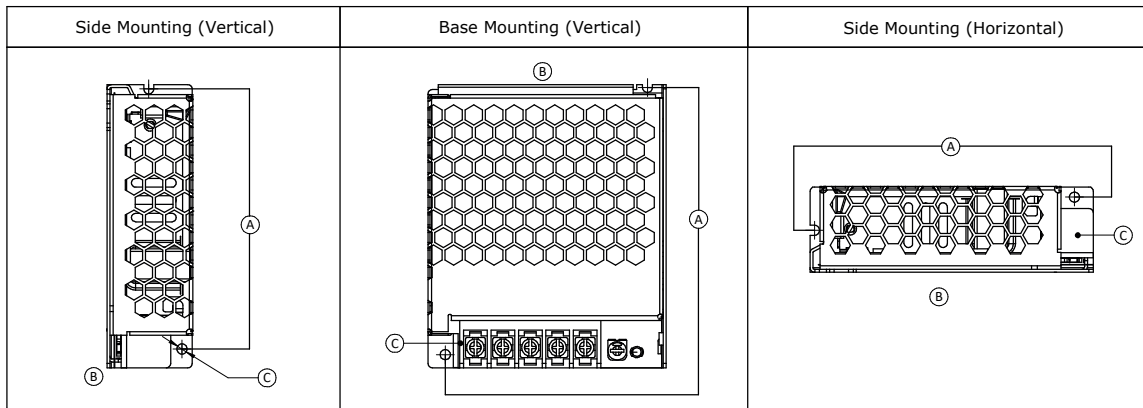
Assembly & Installation

A) Mounting holes for power supply assembly onto the mounting surface.

The power supply shall be mounted on minimum 2 mounting holes using M3 screw minimum 5 mm (0.196 inch) length.

B) This surface belongs to customer's end system or panel where the power supply is mounted.

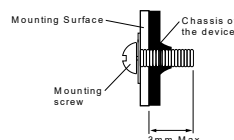
C) Connector



Terminal Details :

Tightening Torque	1.2 N.m. (10.6 lb.in.) Terminal Screw - M4	
Wire with lug	4.5 < 8.0 6 ~ 7mm Stripping length of wire	
Wire Range	22 to 12 AWG	4 mm ²

Installation Of Mounting Accessories :



- 1) Only use M3 screw ≤ 3 mm (0.24 inch) through the base mounting holes.
- 2) This is to keep a safety distance between the screw and internal components.
Recommended mounting tightening torque: 0.5~0.6 N.m (4.42~5.31 lbf.in).

Switched Mode Power Supply

- Universal input voltage range
- Adjustable output voltage
- High Noise Immunity & Low Ripple
- High MTBF > 700,000 hrs
- Overload, Over voltage, Short Circuit & Over Temperature Protection
- CE, UKCA, RoHS Certified
- High Efficiency of Operation
- Wide operating temperature – 30°C to 70°C
- Peak Power Capacity
- Ultra-low standby power (<0.3W)



Ordering Information

Cat ID	Description
PS100W24V	100W, 90 – 264 VAC, 24 VDC, 4.5A, Terminal Block Facing Upward
PS100W24VF	100W, 90 – 264 VAC, 24 VDC, 4.5A, Terminal Block Facing Forward
New PS100W12V	100W, 90 – 264 VAC, 12 VDC, 8.33A, Terminal Block Facing Upward
PS150W24V	150W, 90 – 132 VAC /170 – 264 VAC , 24 VDC, 6.25A, Terminal Block Facing Upward
PS150W24VF	150W, 90 – 132 VAC/170 – 264 VAC, 24 VDC, 6.25A, Terminal Block Facing Forward
New PS150W12V	150W, 90 – 132 VAC/170 – 264 VAC, 12 VDC, 12.5A, Terminal Block Facing Upward

Switched Mode Power Supply



Technical Datasheet

Cat. No.	PS100W24V	PS100W24VF	PS100W12V
Input Supply Characteristics			
Supply Voltage Range	90V to 264VAC 130 - 373VDC		
Frequency Range	47 to 63Hz		
Efficiency	89.00%		
AC Current	1.9A @ 115V Ac ; 1.2A @ 230V AC		
Inrush Current	Cold start 50A @ 230V AC		
No Load Power Consumption	<0.3W @230V AC		
Output Characteristics			
Output DC voltage	24V		12 V DC
Output DC voltage adjustment range	21.6V to 28.8V DC		10.2V to 13.8V DC
Output Current	4.5A@24VDC		8.33A@12VDC
Output Power	108W max		
Line Regulation	± 0.5 %		
Load Regulation	± 0.5 %		
Ripple & Noise	150mVp-p		
Startup Time	500msec at full load		
Rise Time	30msec at full load		
Hold up time	50msec at full load		>30 msec at full load
Dynamic Response(Overshoot & Undershoot O/P Voltage)	0-100% load @ 5Hz & 10KHz		
Start-up with Capacitive Loads	8,000µF Max		
Protections			
Over Voltage	28.8V to 33.6V Shut down O/P voltage, re-power ON to recover		13.2V ~ 17.4V Shut down O/P voltage turn off, Restart power to turn on device
Over load/ Over current	110% or higher of rated output current (Hiccup mode, Auto recover when fault clear)		
Over temperature	Shut down output voltage, re-power ON to recover (Refer derating curve)		
Short circuit	Hiccup mode, recovers automatically after fault recovery		
Protection against shock	Class 1 with Earth Protection		
Over temperature protection	> 50°C de-rate power by 2% / °C (85% load @ 90Vac)		
User Interface			
Pot	For output voltage setting		
Supply voltage selector switch	To select supply voltage 115V or 230V		
LED Indication			
Green LED	ON : DC O/P OK		
Environmental			
Operating Temperature	-30°C to +70°C deg		
Storage Temperature / Humidity	-40°C to +85°C / 20 - 90% RH non-condensing		
Operating Relative humidity	20 - 90% RH non-condensing		
Operating Altitude	Up to 2000 meters		
Over voltage Category	III		
Pollution degree	3		
Vibration Test	Operating & Non-Operating as per : IEC 60068-2-6		
Shock Test	Operating & Non-Operating as per : IEC 60068-2-27		

Switched Mode Power Supply

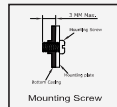
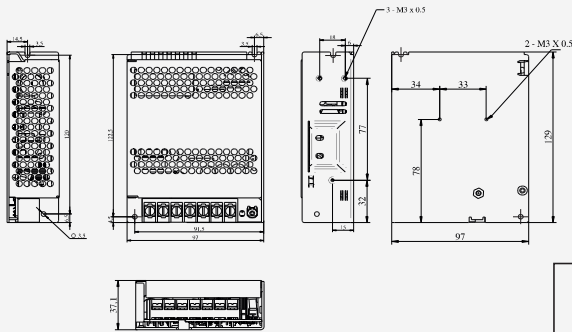
Technical Datasheet



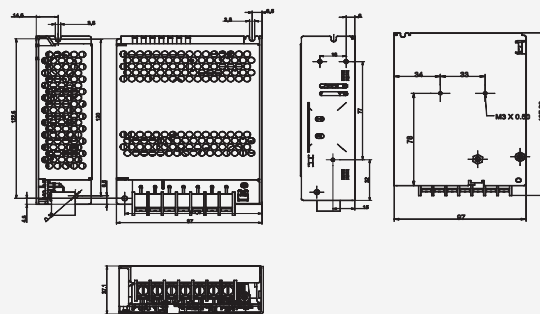
Cat. No.	PS100W24V	PS100W24VF	PS100W12V
Mechanical			
Case chassis	Aluminium		
Dimensions (LxWxH)	129x97x37.1mm	137x97x37.1mm	129x97x37.1mm
Unit weight	Approx. 340g		
Cooling system	Convection		
Mounting type	Panel Mount		
Reliability			
MTBF	>700,000 hrs as per IEC 62380		
Certification	CE UK CA RoHS Compliant		

MOUNTING DIMENSIONS (mm)

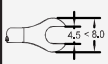
Overall Dimensions of PS100W24V / PS100W12V:
L x W x H : 129 x 97 x 37.1 mm (5.07 x 3.82 x 1.46 inch)



Overall Dimensions of PS100W24VF:
L x W x H : 137 x 97 x 37.1 mm (5.40 x 3.82 x 1.46 inch)



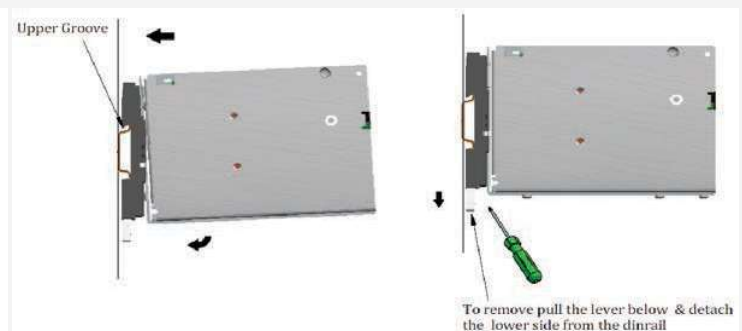
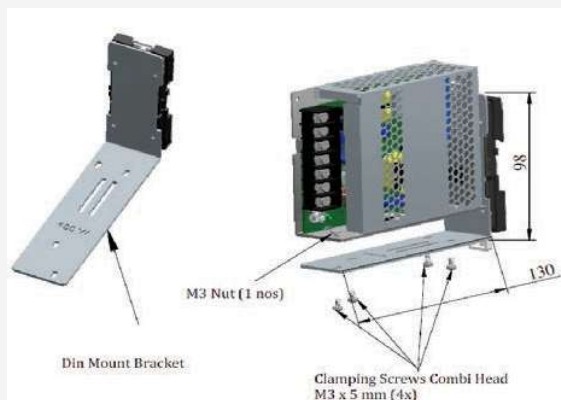
TERMINAL TORQUE & CAPACITY

Tightening Torque	1.2 N.m. (10.6 lb.in.) Terminal Screw - M4
	1 x 4 mm Wire with lug

Din Rail Mounting Method

1. Connect the main Unit & Clamping Bracket with using Screw as shown.

2. Clip the upper groove of the bracket over the DIN rail & push the lower end



Switched Mode Power Supply

Technical Datasheet



Cat. No.	PS150W24V	PS150W24VF	PS150W12V
Input Supply Characteristics			
Supply Voltage Range	85V to 132V AC / 170V to 264V AC – Select able through Switch 240V to 370V DC(When Switch is on 230V AC - When Switch is on 230V		85V to 132V AC - When Switch is on 115V 170V to 264V AC or (240V DC to 370V DC) When Switch is on 230V
Frequency Range	47 to 63Hz		
Efficiency	89.00%		
AC Current	3A @ 115V Ac ; 1.7A @ 230V AC		
Inrush Current	Cold start 60A @ 230V AC		
No Load Power Consumption	<0.5W @230V AC		
Output Characteristics			
Output DC voltage	24V	12 V DC	
Output DC voltage adjustment range	21V to 28V DC	10.2 - 13.8 V DC	
Output Current	6.25A @24VDC	12.5 A @ 12 V DC	
Output Power	150W max		
Line Regulation	± 0.5 %		
Load Regulation	± 0.5 %		
Ripple & Noise	120mV Ripple max		
Startup Time	500msec at full load		
Rise Time	30msec at full load		
Hold up time	168% of rated output (Max.30msec at full load)		
Dynamic Response(Overshoot & Undershoot O/P Voltage)	± 5% @ 115 & 230Vac input, 10-100% load (Slew Rate: 2.5A/μS, 50% duty cycle @ 5Hz & 10KHz)	± 5 % @ 115 & 230Vac input, 0-100% load @ 5Hz & 10KHz	
Start-up with Capacitive Loads	8,000μF Max		
Protections			
Over Voltage	28.8V to 33.6V Shut down O/P voltage , re-power ON to recover	13.8 V ~ 16.4 V (Output voltage turn off, Restart power to turn on device)	
Over load/ Over current	110 to 140% rated output power Hiccup mode, recovers automatically after fault recovery	110% or higher of rated load current Hiccup mode, Auto recover when fault clear	
Over temperature	Shut down output voltage, re-power ON to recover		
Short circuit	Hiccup mode, recovers automatically after fault recovery		
Protection against shock	Class 1 with Protection Earth connection		
Over temperature protection	Low – 0°C to High - 50°C ambient temp. range 70°C with de-rating of 2.5%/°c above 50°c. Forced air cool (Refer de-rating curve)		
User Interface			
Pot	For output voltage setting		
Supply voltage selector switch	To select supply voltage 115V or 230V		
LED Indication			
Green LED	ON : DC O/P OK		
Environmental			
Operating Temperature	-30°C to +70°C deg		
Storage Temperature / Humidity	-40°C to +85°C / 10 - 90% RH non-condensing		
Operating Relative humidity	20 - 90% RH non-condensing		
Operating Altitude	Up to 2000 meters		
Over voltage Category	III		
Pollution degree	3		
Vibration Test	Operating & Non-Operating as per : IEC 60068-2-6		
Shock Test	Operating & Non-Operating as per : IEC 60068-2-27		

Switched Mode Power Supply

Technical Datasheet

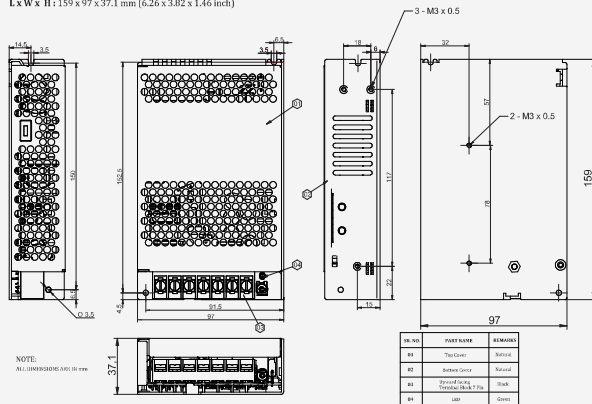


Cat. No.	PS150W24V	PS150W24VF	PS150W12V
Mechanical			
Case chassis	Aluminium		
Dimensions (LxWxH)	159x97x37.1mm	167x97x37.1mm	159 x 97 x 37.1mm
Unit weight	Approx. 400g		
Cooling system	Convection		
Mounting type	Panel Mount		
Reliability			
MTBF	> 700,000 hrs as per IEC 62380		
Certification	CE UK CA RoHS Compliant		

MOUNTING DIMENSIONS (mm)

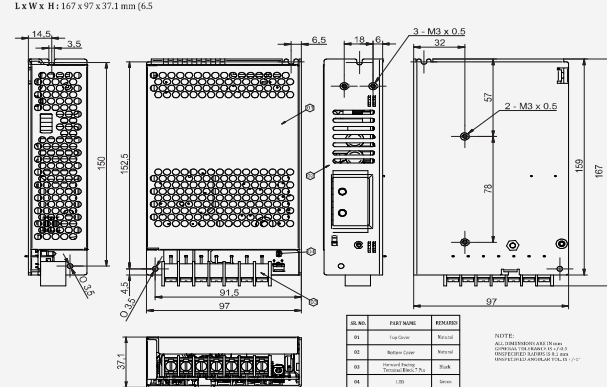
Overall Dimensions of PS150W24V / PS150W12V :

L x W x H : 159 x 97 x 37.1 mm (6.26 x 3.82 x 1.46 inch)



Overall Dimensions of PS150W24VF :

L x W x H : 167 x 97 x 37.1 mm (6.5)



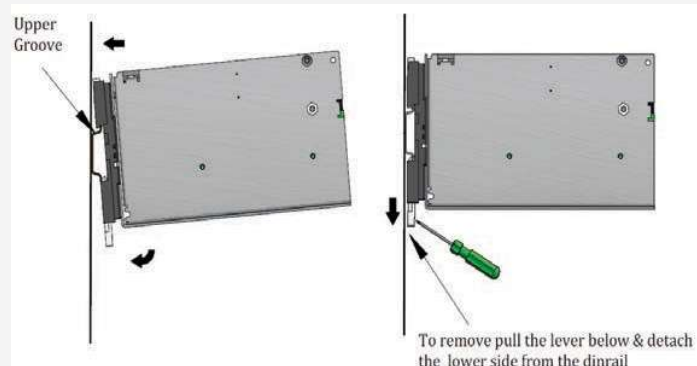
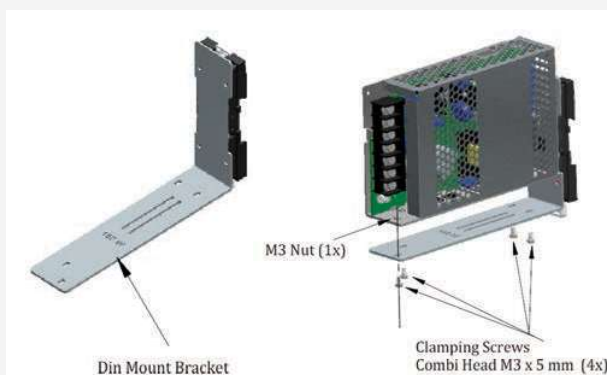
TERMINAL TORQUE & CAPACITY

Tightening Torque	1.2 N.m. (10.6 lb.in.) Terminal Screw - M4
	1 x 4 mm Wire with lug

Din Rail Mounting Accessory

1. Connect the main Unit & Clamping Bracket with using Screw as shown.

2. Clip the upper groove of the bracket over the DIN rail and push the lower end.



Switched Mode Power Supply

- Universal input voltage range
- Adjustable output voltage
- High Noise Immunity & Low Ripple
- High MTBF > 700,000 hrs
- Overload, Over voltage, Short Circuit & Over Temperature Protection
- CE, UKCA, RoHS Certified
- High Efficiency of Operation
- Wide operating temperature – 30°C to 70°C
- Peak Power Capacity
- Low profile design



Ordering Information

Cat ID	Description
PS350W24V	350W, 90V - 132V/ 180 - 264V AC, 24 VDC, 14.6 A, Terminal Block Facing Upward

New

Switched Mode Power Supply

Technical Datasheet



Cat. No. PS350W24V

Input Supply Characteristics

Supply Voltage Range	90V to 264V AC 127V to 375V DC
Frequency Range	47 - 63 Hz
Efficiency	88 % Typ
AC Current	6A typ. @ 115V AC & 3.4A typ. @ 230V AC
Inrush Current	Cold start 60A @ 230V AC
No Load Power Consumption	<3.2W @ 230V AC

Output Characteristics

Output DC voltage	24V
Output DC voltage adjustment range	21 - 28 V DC
Output Current	14.6 A @ 24 V DC
Output Power	350 W
Line Regulation	+/- 0.5%
Load Regulation	+/- 0.5%
Ripple & Noise	200 mV p-p max
Startup Time	1500 msec at full load
Rise Time	30msec at full load
Hold up time	20 msec at full load
Dynamic Response (Overshoot & Undershoot O/P Voltage)	± 10 % @ 115 & 230Vac input, 10-100% load @ 5Hz & 10KHz
Start-up with Capacitive Loads	8,000µF Max

Protections

Over Voltage	28.1 V ~ 33 V (Output voltage hiccup).
Over load/ Over current	110% or higher of rated load current (Hiccup mode, Auto recover when fault clear)
Over temperature	Hiccup output voltage, Auto recover after temperature become in range. (Refer derating curve)
Short circuit	Hiccup mode & Auto Recover after fault recovery.
Protection against shock	Earth Protection
Internal Input Fuse	5A / 300V

User Interface

Pot	To set output voltage
Power Supply selection switch	To select input supply voltage 115V or 230V

LED Indication

Green LED	ON : DC Output OK Blink : HICCUP
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Environmental

Operating Temperature	-30° C to + 70° C (Refer Derating curve)
Storage Temperature / Humidity	-40° C to + 85° C
Operating Relative humidity	20 to 90 % (Non-Condensing)
Operating Altitude	Up to 2000 meters
Operating Positions	Vertical & Horizontal on Top
Over voltage Category	II
Pollution degree	2
Vibration Test	Operating & Non-Operating as per : IEC 60068-2-6 5-500Hz : 5g, 60min.

Mechanical

Case chassis	Aluminium
Casing (Top)	Galvanize
Dimensions (WxHxD)	215 x 115 x 30 (in mm)
Terminal facing	Upward facing terminal
Unit weight	Unpacked : 677 gm Packed : 740 gm
Cooling system	Force cooling

Reliability

MTBF	> 700,000 hrs as per IEC 62380
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Certification



Switched Mode Power Supply

Technical Datasheet



Overall dimensions of PS350W24V

L X W X H : 215 x 115 x 30 mm (8.46 x 4.53 x 1.18 inch)

