TECHNICAL SPECIFICATIONS:		
Cat. No.:	PS150W24V	PS150W24VF
NPUT SUPPLY CHARACTERISTICS:		
Supply Voltage Range	85V to 132V AC - When Switch is on 170V to 264V AC or (240V DC to 370	
Frequency Range	47 - 63 Hz	
@ 115 VAC/100% load	87 % Typ.	
@ 115 VAC/100% load @ 230 VAC/100% load	89 % Typ.	
AC Input Current (Max.)	3A typ. @ 115V AC & 1.7A typ. @ 23	0V AC
nrush Current	Cold start 60A @ 230V AC	
No load power consumption	<0.5W @ 230V AC	
OUTPUT CHARACTERISTICS:		
Nominal Output DC Voltage	24 V DC	
Output DC voltage adjustment range (Pot. setable)	21 - 28 V DC	
Rated Output Current	6.25 A @ 24 V DC	
Rated Output Power	150 W	
 _oad Regulation	± 0.5 % typ.	
Line Regulation	± 0.5 % typ.	
Ripple & Noise	120 mV p-p max.	
Start Up Time	500 msec at full load	
Hold UP Time	30 msec at full load	
Rise Time	30 msec at full load	
Overshoot & Undershoot O/P Voltage)	± 5 % @ 115 & 230Vac input, 0-100% load @ 5Hz & 10KHz	
Start Up with capacitive load	8000uF	
PROTECTIONS:		
Over Voltage	29 V ~ 33 V (Output voltage turn off, Rest	tart power to turn on device)
Over Load/Over current	110% or higher of rated load current (Hicco	
Over Temperature	Shut down output voltage, Re-power ON to	
Short Circuit	Hiccup mode & Auto Recover after fault re	
Protection against shock		ecovery.
	Earth Protection.	
Internal Input Fuse	5A / 300V	
MBIENT CONDITIONS		
Operating Temperature	-30° C to + 70° C (Refer Derating curve)	
Storage Temperature	-40° C to + 85° C	
Relative Humidity	20 to 90 % (Non-Condensing)	
Operating Altitude	Up to 2000 meters	
Operating Positions	Vertical & Horizontal on Top	
Over Voltage category	III	
Pollution Degree	3	
USER INTERFACE		
Potentiometer	To set output voltage	
Power Supply selection switch		W
	To select input supply voltage 115V or 230	·
LED INDICATION	ON - DO Outrat Cit	
Green Led	ON : DC Output OK	
MECHANICAL	1	
Case Chassis (Base)	Aluminum	
Casing (Top)	Galvanize	
Dimensions (L X W X H)	159 x 97 x 37.1 (in mm)	167 x 97 x 37.1 (in
Terminal facing	Upward facing terminal	Horizontal facing to
Weight (unpacked)	400 g	
Cooling	Convection	

Compliance	with	Standarde	EMI/EM
Compliance	with	Standards	

Max. Operating Altitude

Vibration

Standard			
Harmonic Current Emission	IEC 61000-3-2	CLASS A	
Voltage Flicker and Fluctuations	IEC 61000-3-3	CLASS A	
ESD	IEC 61000-4-2	LEVEL IV	
Radiated Susceptibility	IEC 61000-4-3	LEVEL III	
Electrical Fast Transients	IEC 61000-4-4	LEVEL IV	
Surge	IEC 61000-4-5	LEVEL III	
Conducted Susceptibility	IEC 61000-4-6	LEVEL III	
Voltage Dips and Interruptions (AC)	IEC 61000-4-11		
Voltage Dips and Interruptions (DC)	IEC 61000-4-29		
Conducted Emission	CISPR 32	CLASS B	
Radiated Emission	CISPR 32	CLASS B	
Safety:			
Test Voltage Between I/P & O/P	UL 508	3KV	
Total Voltage Datassas UD 0 Fault	111 500	010.4	

Test Voltage Between I/P & Earth UL 508 Test Voltage Between O/P & Earth UL 508 1.25KV Test Voltage Between Enclosure UL 508 1.25KV & all Terminals (Except: Earth Terminal) IEC 61204 4KV Impulse Voltage Between I/P & O/P >100MOhm Insulation Resistance UL508 <0.75 mA @240VAC UL508 Leakage Current -30°C to + 70° Operating Temperature -40°C to + 85°C Storage Temperature

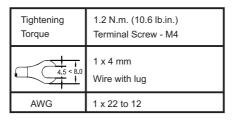
2000 meters

IEC 60068-2-6

20- 90% RH (Non-condensation)

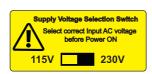
20 - 500Hz (5g)

Terminal Details:

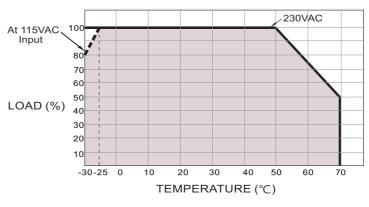


Caution note for Slide Switch:

- > Factory default setting is 230V.
- > Select input voltage switch position 115V or 230V as per input voltage source.
- Select 230V switch position for DC input voltage source.
- > Do not change switch position during runtime operation.

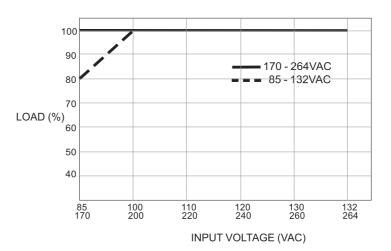


Derating Curve:



At 85-132VAC & 170-264VAC input voltage operation, the output load should be as per mention derating curve graph.

Output Load Derating VS Input Voltage:



There is no output derating applicable from 100 to 264VAC.Refer graph.

PROTECTION AGAINST FAULTS:

Over voltage Protection

Power supply output voltage may increase due to failure in feedback circuit of SMPS.Output voltage of SMPS should not increase above specified limit. In over voltage protection output of SMPS turns off. This feature prevent damage of loads due to over voltage. Reset the input power supply on successful removal of over voltage fault.

Overload/Overcurrent Protection

Power supply protect from overload/overcurrent when load current increase above 110% of rated current. Power supply auto-recover when output load current decrease & return in rated supply band.

Over Temperature Protection

Power supply have thermal protection mode, If internal temperature of SMPS rises extremely during functioning then over temperature protection circuit activate & protect SMPS by shutting down output. Turn off input power supply of SMPS up to 3min & then power on input supply to recover SMPS..

Short circuit Protection

In short circuit protection mode, due sudden rise in output current product goes in hiccup mode by shutting down output voltage. SMPS auto-recover when output short circuit removed.

E-Waste Regulatory Notice:

Kindly treat, recycle or dispose of this equipment in an environmentally sound manner after End of Life, as per WEEE (Waste Electrical and Electronic Equipment) regulations or as per local norms or hand it over to General Industrial Controls Pvt. Ltd, through website https://www.gicindia.com/get-in-touch/





SWITCH MODE POWER SUPPLY 150W/24VDC

Catalog Nos.:

PS150W24V PS150W24VF









PRODUCT DESCRIPTION:

Switched Mode Power Supply is a circuit which is designed for obtaining the regulated DC output voltage from an unregulated DC or AC voltage. SMPS is electronic power supply that incorporates a switching regulator to convert electrical power efficiently.

FEATURES:

- Wide input voltage range selectable by switch
- Excellent load & line regulation.
- Excellent Load Transient Response
- No load Power consumption of 0.5W max.
- High noise Immunity & Low ripple.
- High efficiency of Operation.
- Wide operating temperature -30°C to 70°C.
- Protection to overload, over voltage, short circuit & over temperature.
- High MTBF > 700,000 hrs.
- Over voltage category III.
- Pollution degree III.
- Small form factor
- > Din rail/Base mount.
- CE & RoHS compliance.

A CAUTION:

- Select correct position of slide switch before Power ON.
- > Do not touch the terminals while power is being supplied.
- Tighten terminal screws with the specified torque.
- Always follow instructions stated in product leaflet
- Do not touch casing when power ON or immediately after turns off,
 Due to hot surface may chances of burning.
- During installation avoid conducted items entering into the opening area of device it may create chances of electric shock.
- Device kept away from wet, dust & humidity environments.
- During installation, keep 10mm distance on both sides of product from adjacent devices.
- Do not open device or try to rework, In case of failure return it to supplier for troubleshooting it may cause electric shock.
- Device manufacturer will not be responsible if any incident occur due to negligence of cautions.

NOTE:

- The technical information provided in this document was correct at the time of publish.
- Product innovation being a continuous process, we reserve the right to alter specifications.

Accessory Ordering Code:

Cat No.	Description
L15024	Mounting Bracket

