

Features

- Compact and economical switching power supply
- Power ratings up to 150 W
- Open-frame and covered types
- Wide range of output voltages: 5 V, 12 V, 15 V, or 24 V



Ordering Information

Type	Power ratings	Output voltage/current		Part number	
		12 V	24 V	120 VAC input	240 VAC input
Open frame	10 W	1 A	—	S82J-0112	S82J-2112
		—	0.5 A	S82J-0124	S82J-2124
	25 W	2.1 A	—	S82J-0212	S82J-2212
		—	1.1 A	S82J-0224	S82J-2224
	50 W	4.2 A	—	S82J-0512	S82J-2512
		—	2.1 A	S82J-0524	S82J-2524
	100 W	8.5 A	—	S82J-10012A1	S82J-10012A2
	150 W	—	6.5 A	S82J-15024A1	S82J-15024A2
Covered	10 W	1 A	—	S82J-5112	S82J-6112
		—	0.5 A	S82J-5124	S82J-6124
	25 W	2.1 A	—	S82J-5212	S82J-6212
		—	1.1 A	S82J-5224	S82J-6224
	50 W	4.2 A	—	S82J-5512	S82J-6512
		—	2.1 A	S82J-5524	S82J-6524
	100 W	8.5 A	—	S82J-10012D1	S82J-10012D2
	150 W	—	4.5 A	S82J-5024	S82J-6024
			6.5 A	S82J-15024D1	S82J-15024D2

Note: 1. 5 V and 15 V types also available.

2. Mounting brackets are included with all power supply units.

Specifications

S82J 10/25/50 W (S82J-1024/2024/5024/6024) Models

Item			100 to 120 VAC input				200 to 240 VAC input			
			10 W	25 W	50 W	100 W	10 W	25 W	50 W	100 W
Efficiency (typical)			70% (at 5 V output) to 86% (24 V output)							
Input	Voltage	AC	85 to 132 VAC				170 to 264 VAC			
		DC	110 to 170 VDC				No			
	Frequency		47 to 450 Hz							
	Current (see note)		0.35 A max.	0.8 A max.	1.4 A max.	2.5 A max.	0.3 A max.	0.6 A max.	0.8 A max.	1.5 A max.
	Leakage current (see note)		0.5 mA max.				1 mA max.			
	Inrush current (see note)		25 A max.				50 A max.			
	Noise filter		Yes							
Output	Voltage adjustment range		±5%, adjustable with variable resistor (V.ADJ)							
	Ripple		2% (p-p) max.							
	Input variation influence		0.4% max. (at 85 to 132 VAC input, 100% load)				0.4% max. (at 170 to 264 VAC input, 100% load)			
	Load variation influence		0.8% max. (with rated input, 10% to 100% load)							
	Temperature variation influence		0.05%/°C max. (with rated input and output)							
	Rise time		200 ms max. (up to 90% of output voltage at rated voltage and rated output voltage/current)							
	Hold time		20 ms max. (up to 90% of output voltage at rated voltage and rated output voltage/current)							
Other	Ambient temperature		-20° to 85°C							
	Approved standards		UL (E105544), CSA (LR63986), CE, VDE 0160, VDE 0805, and EN 60950 (IEC 950)							

Note: Defined with the rated input voltage and rated output voltage/current.

Specifications

S82J 100/150 W Models

Item	100 to 120 V input		200 to 240 V input	
	100 W	150 W	100 W	150 W
Efficiency (typical)	78% to 85% (depends on the model)			
Input	Voltage	120 VAC (85 to 132 VAC)		240 VAC (170 to 264 VAC)
	Frequency	47 to 450 Hz		
	Current (see note 1)	2.5 A max.	3.5 A max.	1.4 A max. 2.1 A max.
	Leakage current (see note 1)	0.5 mA max.		
	Inrush current (see note 1)	25 A max. (at 25°C)		
	Noise filter	Yes		
Output (see note 2)	Voltage adjustment range	±10% (adjustable with variable resistor [V.ADJ])		
	Ripple	2% (p-p) max.		
	Input variation influence	0.4% max. (at 85 to 132 VAC input, 100% load)		0.4% max. (at 170 to 264 VAC input, 100% load)
	Load variation influence	0.8% max. (with rated input, 10% to 100% load)		
	Temperature variation influence	0.05%/°C max. (with rated input and output)		
	Rise time	200 ms max. (up to 90% of output voltage at rated input and output)		
	Hold time (see note 1)	20 ms min.		
Other	Ambient temperature	-25° to 65°C		
	Approved standards	UL 508, CSA C22.2 No. 14, CE, Conforms to VDE 0160, VDE 0805, and EN 60950 (IEC 950)		

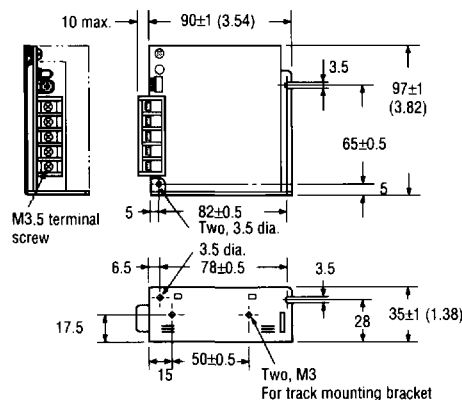
Note: 1. Defined with a 100% load and the rated input voltage (120 or 240 VAC).

2. The output specification is defined at the power supply output terminals.

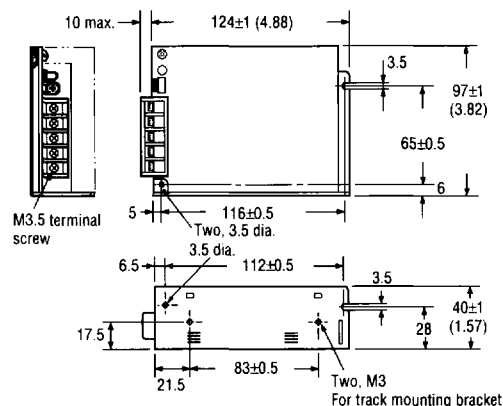
Dimensions [Unit: mm (inch)]

Open Frame Type

S82J-01, S82J-21, S82J-51, S82J-61

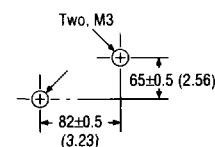


S82J-02, S82J-22, S82J-52, S82J-62

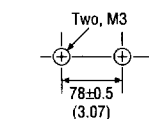


Mounting holes (Surface screw mounting)

Side mounting

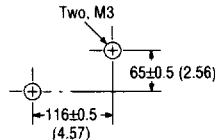


Bottom mounting

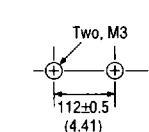


Mounting holes (Surface screw mounting)

Side mounting

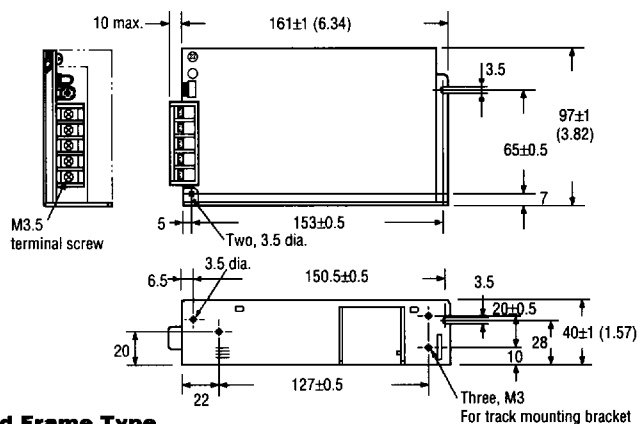


Bottom mounting



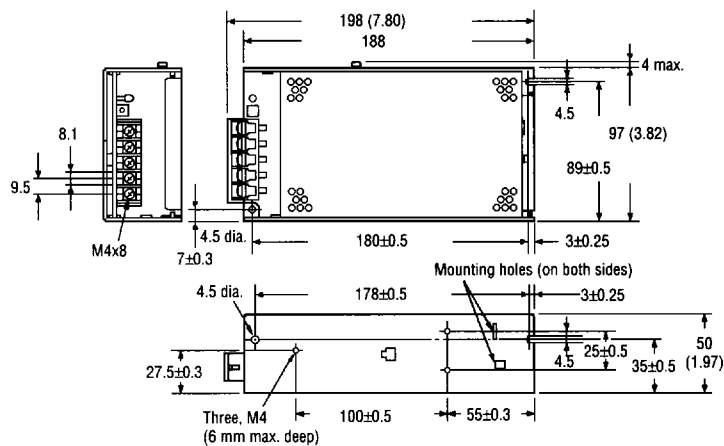
Open Frame Type

S82J-05, S82J-25, S82J-55, S82J-65



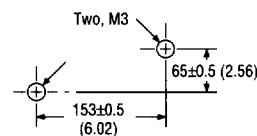
Enclosed Frame Type

S82J-100■■■, S82J-15024■■

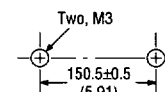


Mounting holes

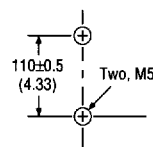
Side mounting



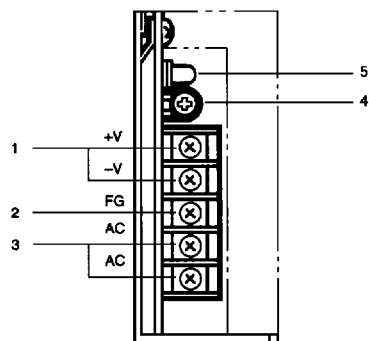
Bottom mounting



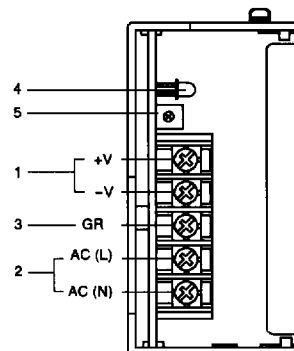
Mounting holes



S82J 10/25/50 W (S82J-1024/2024/5024/6024)



1. **DC Output Terminals:** Connect the load lines to these terminals.
2. **Ground Terminal (GR):** Connect a ground line to this terminal.
3. **Input Terminals:** Connect the input lines to these terminals.
4. **Output Voltage Adjuster (V.ADJ):** Adjusts the output voltage.
5. **Output Indicator (DC ON):** Lights while a direct current (DC) output is ON.

S82J 100/150 W

1. **DC Output Terminals:** Connect the load lines to these terminals.
2. **Input Terminals:** Connect the input lines to these terminals.
(Note: A fuse is inserted into the AC (L) side.)
3. **Ground Terminal (GR):** Connect a ground line to this terminal.
4. **Output Indicator (DC ON):** Lights while a Direct Current (DC) output is ON.
5. **Output Voltage Adjuster (V.ADJ):** It is possible to increase or decrease the output voltage by 10%.