

SMPS Modular

- Excellent Load & Line Regulation
- High Noise Immunity & Low Ripple
- No Load Power Consumption of less than 0.5W
- Overload & Short Circuit Protection
- High Efficiency of Operation
- Suitable for Temperatures upto 55°C
- Small Form Factor
- Peak Power Capacity
- Compact Design with DIN Mounting



Ordering Information

Cat. No.	Description
24AS244D6D	96W, 230V AC, 24 VDC / 4A, Switched Mode Power Supply (6M Size)
24AS126D6D	72W, 230V AC, 12 VDC / 6A, Switched Mode Power Supply (6M Size)
24BS24AD4E	60W, 110 - 240 VAC, 24 VDC / 2.5A, Switched Mode Power Supply (4M Size)
24BS241D2F	24W, 110 - 240 VAC, 24 VDC / 1A, Switched Mode Power Supply (2M Size)
24BS24BD1F	12W, 110 - 240 VAC, 24 VDC / 0.5A, Switched Mode Power Supply (1M Size)
24BS121D2F	12 W, 110 - 240 VAC, 12 VDC / 1.0A, Switched Mode Power Supply (2M Size)
24BS101D2F	10 W, 110 - 240 VAC, 10 VDC / 1.0A, Switched Mode Power Supply (2M Size)
24BS051D1F	5W, 110 - 240 VAC, 5 VDC / 1.0A, Switched Mode Power Supply (1M Size)

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Cat. No.	24AS244D6D	24AS126D6D	24BS24AD4E	24BS241D2F	
Parameters					
Supply Voltage (≡)	230 VAC		100-240V AC		
Supply Variation	-15% to 10%				
Frequency	50 Hz		50/60 Hz		
Power Consumption @ No Load	0.4W Max. @ 230 VAC		< 0.3W Max. @ 115 VAC < 0.4W Max. @ 230 VAC	< 0.3W Max. @ 115 VAC < 0.5W Max. @ 230 VAC	
AC Current	0.8A / 230 VAC		1.3A/115VAC & 0.7A/230VAC		
Efficiency	> 85%				
Inrush Current	Cold Start 50A / 230 VAC				
Leakage Current	< 0.2μA / 230 VAC				
Output	Voltage	24 VDC			
	Rated Current	4A		2.5A	1A
	Current Range	0 - 4A	0 - 6A	0 - 2.5A	0 - 1A
	Rated Power	96W	72W	60W	24 W
	Output Voltage Accuracy	± 1%			
	Line Regulation	1%			
	Load Regulation	1%			
	Ripple & Noise	150 mV (P-P)			
	Over Voltage Protection	26V ~ 33 V		26V ~ 38V	
	Over Load Capacity	168% of rated output (Max.10s)		160% of rated output (Max. 10s)	
Continuous Open Circuit	Normal Operation				
Over Current Protection	Voltage Drop				
Continuous Short Circuit Protection	Auto Recovery after fault condition is removed				
Start Up Time	3s Max. (At minimum input voltage and rated load)				
Hold Up Time	30ms Min. (At minimum input voltage and rated load)				
Withstand Voltage	Input to Output 3 KV AC for 1 Minute, 5 mA				
LED Indications	Green LED: Output ON				
Operating Temperature	-10°C to + 55°C		-10°C to + 55°C		
Storage Temperature	-25°C to + 85°C		-10°C to + 70°C		
Enclosure	Flame Retardant UL94-V0				
Dimension (W x H x D) (in mm)	105 X 90 X 58		72 X 90 X 58	36 x 90 x 60	
Weight (unpacked) Approx.	350 g		260 g	135 g	
Mounting	Base / DIN Rail				
Certification	CEUKCA  RoHS Compliant				

EMI / EMC

Harmonic Current Emissions	IEC 61000-3-2
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients	IEC 61000-4-4
Surges	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Voltage Dips & Interruptions (AC)	IEC 61000-4-11
Conducted Emission	CISPR 14-1
Radiated Emission	CISPR 14-1

Switched Mode Power Supply



Cat. No.		24BS24BD1F	24BS121D2F	24BS101D2F	24BS051D1F
Parameters					
Supply Voltage (⎓)		100-240V AC			
Supply Variation		-15% to +10%	±10%		-15% to +10%
Frequency		50/60 Hz, (± 3 Hz)			
Power Consumption @ No Load		0.3W @ 115 VAC 0.5W @ 230 VAC	< 0.6W		< 0.3W
AC Current		0.22A/115VAC & 0.14A/230VAC	350 mA	200 mA	140 mA
Efficiency		> 85%			> 70%
Inrush Current (Cold Start)		30A @ 230 VAC	50A @ 230 VAC		8A @ 115 VAC & 16A @ 230 VAC
Leakage Current		< 0.2μA / 230 VAC			
Output	Voltage	24 VDC	12 VDC	10 VDC	5 VDC
	Rated Current	4A		2.5A	
	Current Range	0 -	1A		
	Rated Power	0.5A		10W	5W
	Output Voltage Accuracy	± 12W			
	Line Regulation	1%			
	Load Regulation	1%			
	Ripple & Noise	150 mV (P-P)			100 mV (P-P)
	Over Voltage Protection	<160%			<180%
	Over Load Capacity	120% ~ 200%	120% ~ 140%		120% ~ 140%
Continuous Open Circuit		Normal Operation			
Over Current Protection		Voltage Drop			
Continuous Short Circuit Protection		Auto Recovery after fault condition is removed			
Start Up Time		150 - 500 ms	1s Max.		2s Max.
Hold Up Time		20 ms @110 VAC & 110 ms @230 VAC	>10 ms @115 VAC & >20 ms @230 VAC		>10 ms @115 VAC & >20 ms @230 VAC
Withstand Voltage		Input to Output 3 KV AC for 1 Minute, 5 mA			
LED Indications		Green LED: Output ON			
Operating Temperature		-10°C to + 55°C	-10°C to + 55°C		
Storage Temperature		-10°C to + 70°C	-25°C to + 85°C		
Enclosure		Flame Retardant UL94-V0			
Dimension (W x H x D) (in mm)		90.5 X 90 X 58.5			17.5 X 90 X 58.5
Weight (unpacked) Approx.		75 g	135 g		75 g
Mounting		Base / DIN Rail			
Certification		  			

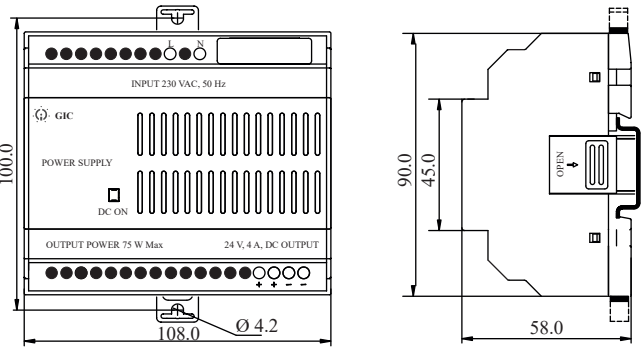
EMI / EMC

Harmonic Current Emissions	IEC 61000-3-2
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients	IEC 61000-4-4
Surges	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Voltage Dips & Interruptions (AC)	IEC 61000-4-11
Conducted Emission	CISPR 11
Radiated Emission	CISPR 11

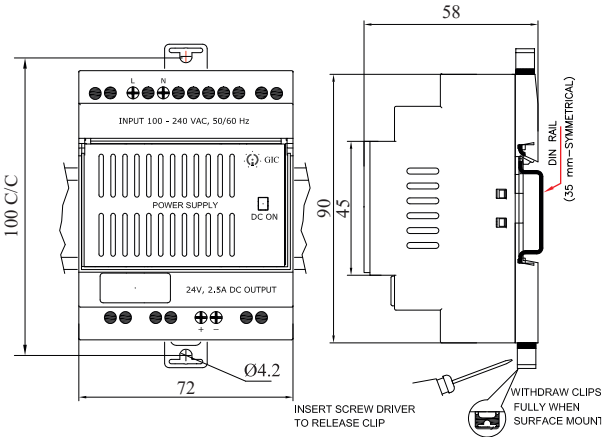
SMPS Modular



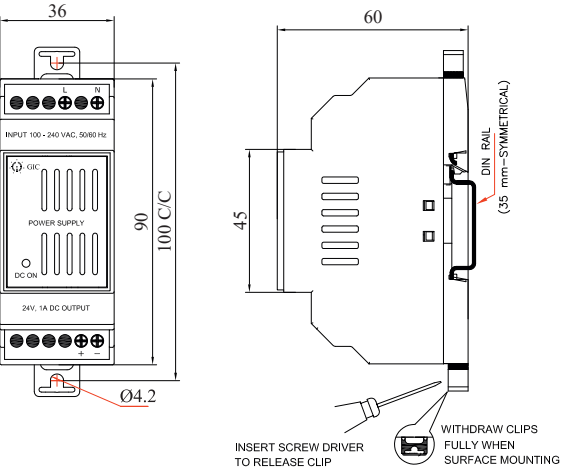
MOUNTING DIMENSIONS (mm)



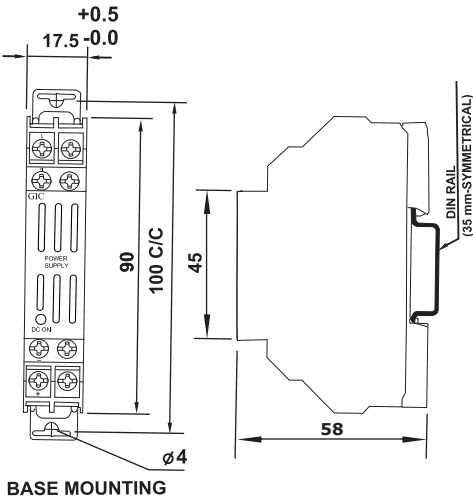
24AS244D6D, 24AS126D6D



24BS24AD4E

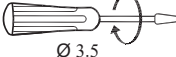


24BS241D2F, 24BS121D2F, 24BS101D2F

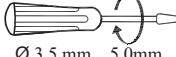


24BS24BD1F, 24BS051D1F

TERMINAL TORQUE & CAPACITY

	0.54 N.m (5 Lb.in)
	1 x 2.5 mm Solid Wire/Stranded
AWG	1 x 24 to 12

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	0.7 N.m (6.2 Lb.in)
	2 x 2.5 mm ² Solid/Stranded Wire
AWG	24 x 10

24BS24BD1F, 24BS051D1F