

Switched Mode Power Supply - 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
- Wide operating temperature -10°C to 55°C
- Small Form Factor
- Peak Power Capacity
- Compact Design with DIN mounting
- CE, UKCA, ROHS Certified



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, 100 - 240 VAC, 24 VDC / 2.5A, Switched Mode Power Supply (4M Size)
24BS241D2F	24W, 100 - 240 VAC, 24 VDC / 1A, Switched Mode Power Supply (2M Size)
24BS24BD1F	12W, 100 - 240 VAC, 24 VDC / 0.5A, Switched Mode Power Supply (1M Size)
24BS121D2F	12 W, 100 - 240 VAC, 12 VDC / 1.0A, Switched Mode Power Supply (2M Size)
24BS101D2F	10 W, 100 - 240 VAC, 10 VDC / 1.0A, Switched Mode Power Supply (2M Size)
24BS051D1F	5W, 100 - 240 VAC, 5 VDC / 1.0A, Switched Mode Power Supply (1M Size)

Switched Mode Power Supply



Cat. No.		24AS244D6D	24AS126D6D	24BS24AD4E	24BS241D2F
Parameters					
Supply Voltage (≡)		230 VAC		100-240V AC	
Supply Variation		-30% to +15%		-15% to +10%	
Frequency		50/60 Hz			
Power Consumption @ No Load		0.5W 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		1.2A	1A	1.3A/115VAC & 0.7A/230VAC	0.6 A at 115VAC & 0.35A at 230VAC
Efficiency		> 87%	> 84%	> 85%	
Inrush Current		Cold Start 50A / 230 VAC			
Leakage Current		< 0.2μA / 230 VAC			
Output	Voltage	24 VDC	12 VDC	24 VDC	
	Rated Current	4A	6A	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)	<100 mV (P-P)	<150 mV (P-P)	
	Over Voltage Protection	<175%		160%	
Over Load Capacity	125% ~ 160%	105% ~ 135%	150% ~ 250%	120% ~ 175%	
Continuous Open Circuit		Normal Operation			
Over Current Protection		Voltage Drop			
Continuous Short Circuit Protection		Auto Recovery after fault condition is removed			
Start Up Time		<0.5 s (At minimum input voltage & rated load)		90 to 110 ms	80 ms to 1 sec
Hold Up Time		>20 ms	>30 ms	130 ms @110 VAC & 470 ms @230 VAC	20 ms @110 VAC & 100 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		-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		CE UK CA 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 11
Radiated Emission	CISPR 11

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	0.5A	1A	1A	
	Current Range	0 - 0.5A	0-1A		
	Rated Power	24W	12W	10W	5W
	Output Voltage Accuracy	± 1%			
	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)		17.5 X 90 X 58.5	90 x 60 x 36		17.5 X 90 X 58.5
Weight (unpacked) Approx.		75 g	135 g		75 g
Mounting		Base / DIN Rail			
Certification		CEUKCA  RoHS Compliant			

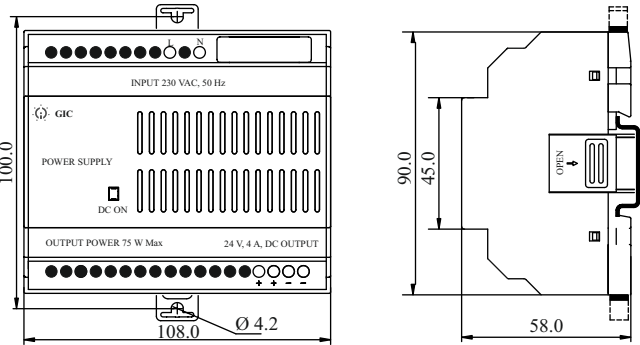
EMI / EMC

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 11
Radiated Emission	CISPR 11

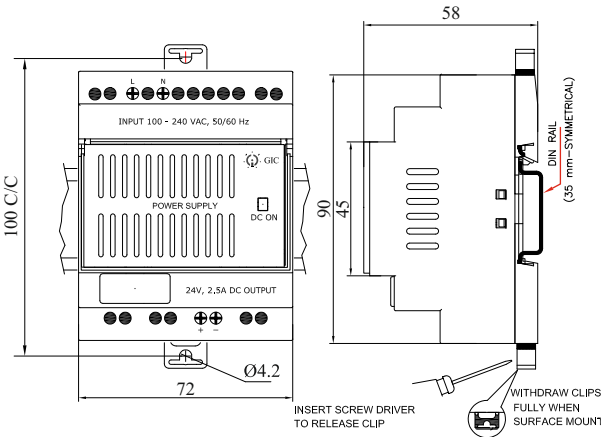
Switched Mode Power Supply



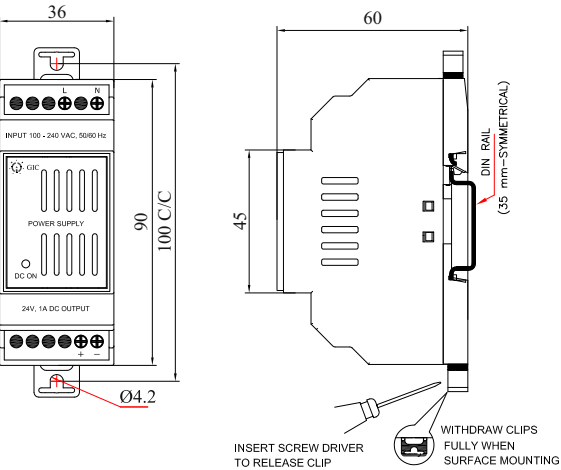
MOUNTING DIMENSIONS (mm)



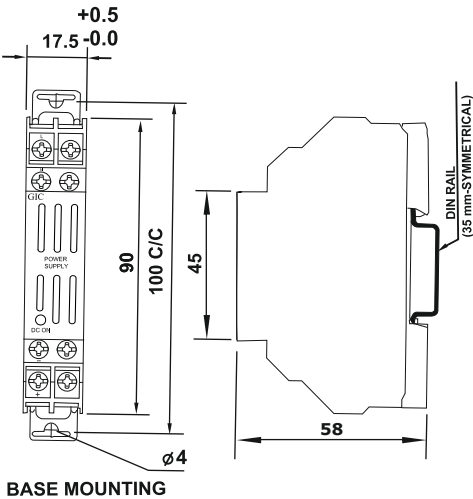
24AS244D6D, 24AS126D6D



24BS24AD4E



24BS241D2F, 24BS121D2F, 24BS101D2F



24BS24BD1F, 24BS051D1F

TERMINAL TORQUE & CAPACITY

	0.54 N.m (5 Lb.in)
	1 x 2.5 mm ² Solid Wire/Stranded
AWG	1 x 24 to 12

24AS244D6D, 24AS126D6D, 24BS24AD4E, 24BS241D2F, 24BS121D2F, 24BS101D2F

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

24BS24BD1F, 24BS051D1F