

GAT SP 07x

DIN Rail Power Supply

FACTS AT A GLANCE

- Ultra-slim design with 70 mm or 35 mm width
- Universal input 85 - 264 VAC
- No-load power consumption <0.3 W
- Short-circuit / overload / overvoltage protection
- Adjustable DC output voltage
- LPS (Limited Power Source) certified
- Cooling via free air convection
- DIN rail TS-35/7.5 or 15 mountable



To power GANTNER access controllers, e.g., GAT DC 7200, and readers, e.g., GAT SR 73xx, GANTNER provides the GAT SP 070 (12 VDC) and GAT SP 074 (24 VDC) power supplies. And for flexibility, each model is available in two output current configurations: the GAT SP 070 with 2 A and 7.1 A outputs, and the GAT SP 074 with 1.5 A and 3.8 A outputs.

On the power input side, all four power supply models offer a wide input range that allows use in both 230 V and 110 V AC systems. Operation via DC input is also possible. On the power output side, two low-voltage outputs are available to power the GANTNER devices. The connection is made via screw terminals.

The installation of the power supplies is effortlessly carried out via the ubiquitous and convenient DIN rail. For peace of mind, all models provide protection against short circuit, overload, and overvoltage, with the robust housing ensuring a durable application life. The Class II protection level provides users with a safer operating environment. With up to 90% efficiency, the power supplies are cooled by free air convection to significantly increase their reliability and lifetime.

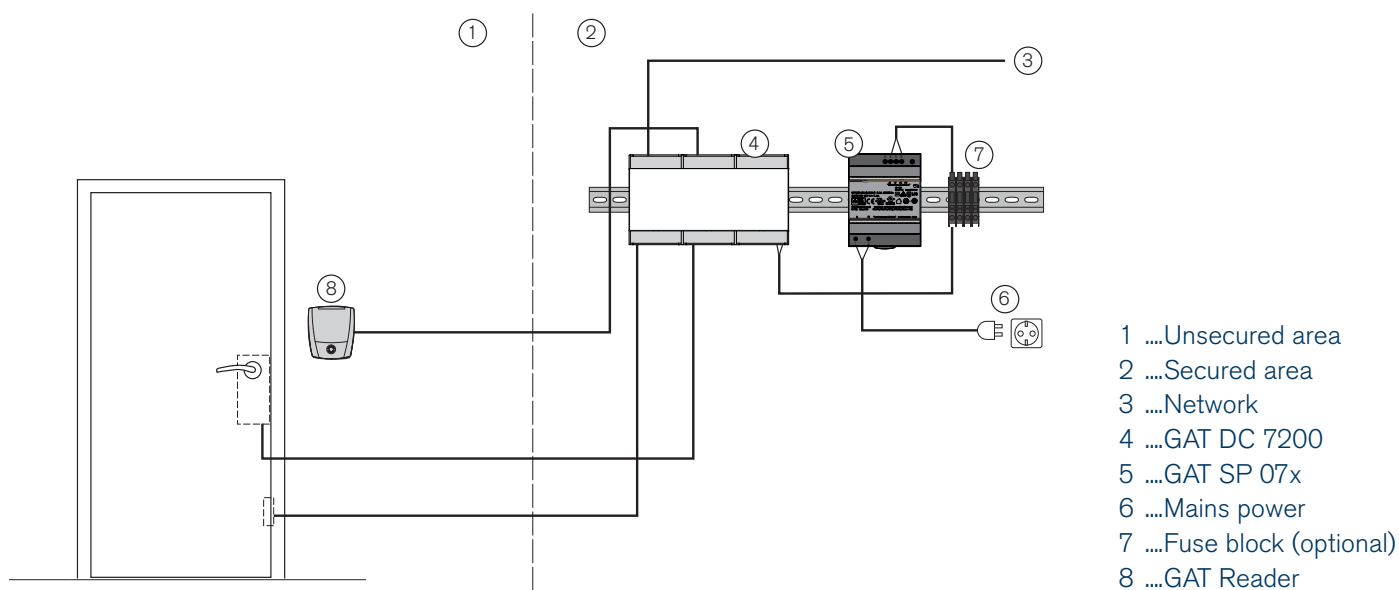
GAT SP 070 2A / GAT SP 074 1.5A



GAT SP 070 7.1A / GAT SP 074 3.8A



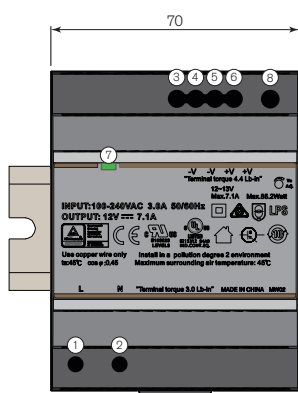
Typical Application



Device Elements and Dimensions

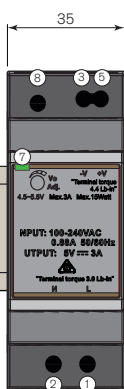
Front View

GAT SP 070 7.1A / GAT SP 074 3.8A



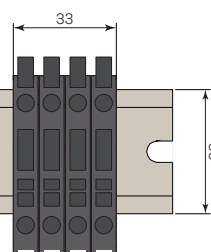
Front View

GAT SP 070 2A / GAT SP 074 1.5A



Front View

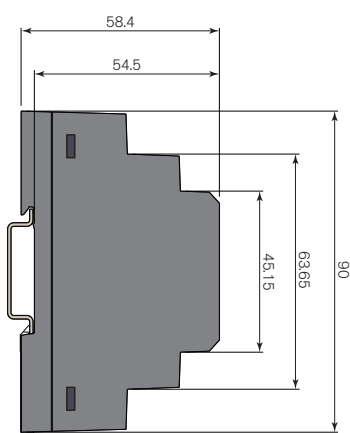
GAT SP 07x Fuse Block (optional)



Permitted DIN rail
- TS35/7.5
- TS35/15

Side View

All Power Supplies



Pin No.	PIN Assignment
1	AC/L
2	AC/N
3	-V
4	-V
5	+V
6	+V
7	LED
8	+V ADJ.

Technical Data

		GAT SP 070 2A	GAT SP 070 7.1A	GAT SP 074 1.5A	GAT SP 074 3.8A
OUTPUT	DC voltage:	12 V	12 V	24 V	24 V
	Rated current:	2 A	7.1 A	1.5 A	3.83 A
	Current range:	0 ~ 2A	0 ~ 7.1A	0 ~ 1.5A	0 ~ 3.83 A
	Rated power:	24 W	90 W	36 W	100.8 W
	Voltage adj. range:	10.8 ~ 13.8 V	12 ~ 13 V (Pass LPS) 12 ~ 13.8 V (Non LPS)	21.6 ~ 29 V	24 ~ 25.5 V (Pass LPS) 21.6 ~ 29V (Non LPS)
	Voltage tolerance ^{Note.2}	±1.0%	±2.0%	±1.0%	±1.0%
INPUT	Voltage range:	85 ~ 264 VAC (277 VAC operational) 120 ~ 370 VDC (390 VDC operational)			
	Frequency range:	47 ~ 63 Hz			
	Efficiency (typ.):	88%	88%	89%	90%
	AC current (typ.):	0.88 A/115 VAC 0.48 A/230 VAC	3 A/115 VAC 1.6 A/230 VAC	0.88 A/115 VAC 0.48 A/230 VAC	3 A/115 VAC 1.6 A/230 VAC
	Inrush current (typ.):	Cold start 25 A/115 VAC 45 A/230 VAC	Cold start 30 A/115 VAC 45 A/230 VAC	Cold start 25 A/115 VAC 45 A/230 VAC	Cold start 30 A/115 VAC 45 A/230 VAC
PROTECTION	Overload: ^{Note.4}	105 ~ 160%	102 ~ 110%	105 ~ 160%	102 ~ 110%
		rated output power	rated output power	rated output power	rated output power
		Protection type: Constant current limiting, recovers automatically after fault condition is removed.			
	Over voltage:	15 ~ 18 V	14.2 ~ 16.2 V	30 ~ 36 V	30 ~ 36V
ENVIRONMENT		Protection type: Shut down o/p voltage, re-power on to recover.			
	Working temperature:	-30 ~ +70 °C			
	Working humidity:	20 ~ 90% RH non-condensing			
	Storage temperature:	-40 ~ +85 °C			
	Humidity:	10 ~ 95% RH			
	Temperature coefficient:	±0.03%/ °C (0 ~ 50 °C)			
SAFETY & EMC	Vibration:	Component: 10 ~ 500 Hz, 2G 10 min./1 cycle, 60 min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
	Safety standards:	UL60950-1, UL508, TUV EN61558-2-16, IEC60950-1, EAC TP TC 004, BSMI CNS14336-1 approved; Design refer to TUV EN60950-1			
	Withstand voltage:	I/P-O/P: 4 KVAC			
	Isolation resistance:	I/P-O/P:>100M Ohms / 500 VDC / 25 °C / 70% RH			
	EMC emission:	Compliance to: EN55032 (CISPR32), CNS13438			
	EMC immunity:	Compliance to: EN61000-4-2, 3, 4, 5, 6, 8, 11			
OTHER	MTBF	968.1K hrs min.	856.5K hrs min.	968.1K hrs min.	856.5K hrs min.
		MIL-HDBK-217F (25 °C)	MIL-HDBK-217F (25 °C)	MIL-HDBK-217F (25 °C)	MIL-HDBK-217F (25 °C)
	Dimensions (W*H*D):	35*90*54.5 mm	70*90*54.5 mm	35*90*54.5 mm	70*90*54.5 mm
NOTE	1.	All parameters not specially mentioned are measured at 230 VAC input, rated load, and 25 °C ambient temperature.			
	2.	Tolerance: includes set up tolerance, line regulation, and load regulation.			
	3.	The power supply is considered a component that will be installed into a final equipment. The final equipment must be re-confirmed to ensure it still meets EMC directives.			
	4.	Constant current limiting operation within 50 - 100% rated output voltage. The short-circuit protection occurs by switching it off and on again automatically. The normal state is automatically restored after the error state has been corrected.			