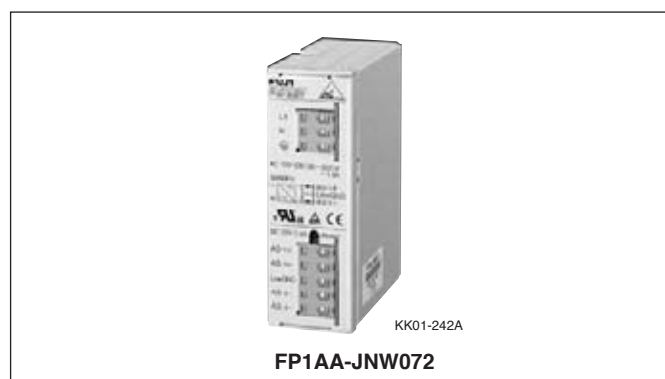


AS-i power supply, FP1

■ Description

The AS-i power supply provides electric power for slaves and sensors through the AS-i communication line. This power supply allows data and power transmission on one line. This unit is also used to extend the transmission distance using the repeaters.

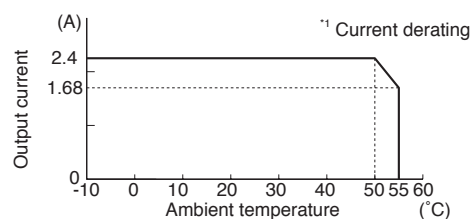
- FP1AA has a wide range of rated input voltage 100 to 230V AC.
- Overcurrent protective function is built-in.
- Conforms to the following EC Directives:
Low Voltage Directive (No.73/23/EEC): EN60950
EMC Directive (No. 89/336/EEC): EN50081-1, EN50082-2
- IEC rail mounting



■ Ratings and specifications

Type		FP1AA-JNW072
Application		AS-i communication
Rated input voltage		100 to 230V AC (continuous)
Operating voltage range		85 to 235V AC
Rated frequency		50/60Hz (47 to 63Hz)
Power dropout tolerance (at 100V AC)		20ms or more
Rated input current (100/200V AC)		Approx. 1.9/1.0A
Inrush current (230V AC)		40A or less
Output voltage	Rated voltage	30V DC for communication
	Voltage stabilization	±2%
	Ripple noise	150mV _{P-P} or less
Efficiency		80% or more
Output power		72W
Rated output current (current range)		2.4A (0 to 2.4A) Current derating at 50°C or more ^{**1}
Output short-circuit protection		Auto-reset
Protection class (IEC536)		Class I
Secondary side insulation (EN60950)		Yes (SELV: Safety-Extra Low Voltage)
Radio interference suppression (EN55011)		Class B
Degree of protection (IEC60529)		IP20
Operating temperature		-10 to +55°C (no icing or no condensation)
Storage temperature		-25 to +85°C (no icing or no condensation)
Relative humidity		Less than 90%RH (no condensation)
AS-i cable connecting method		Spring-clamp terminal
Shock resistance (IEC68-2-27)		150m/s ² (11ms)
Vibration resistance (IEC68-2-6)		10 to 55Hz, 0.5mm one-way amplitude
Mass		Approx. 700g
Approvals		cUL (UL1950, CSA950), CE, TÜV

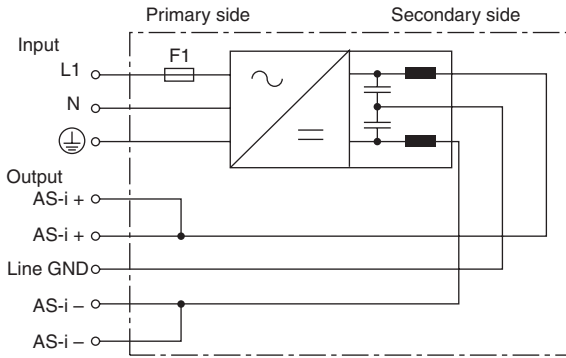
Note : Fuse not replaceable



AS-Interface

■ Wiring diagrams

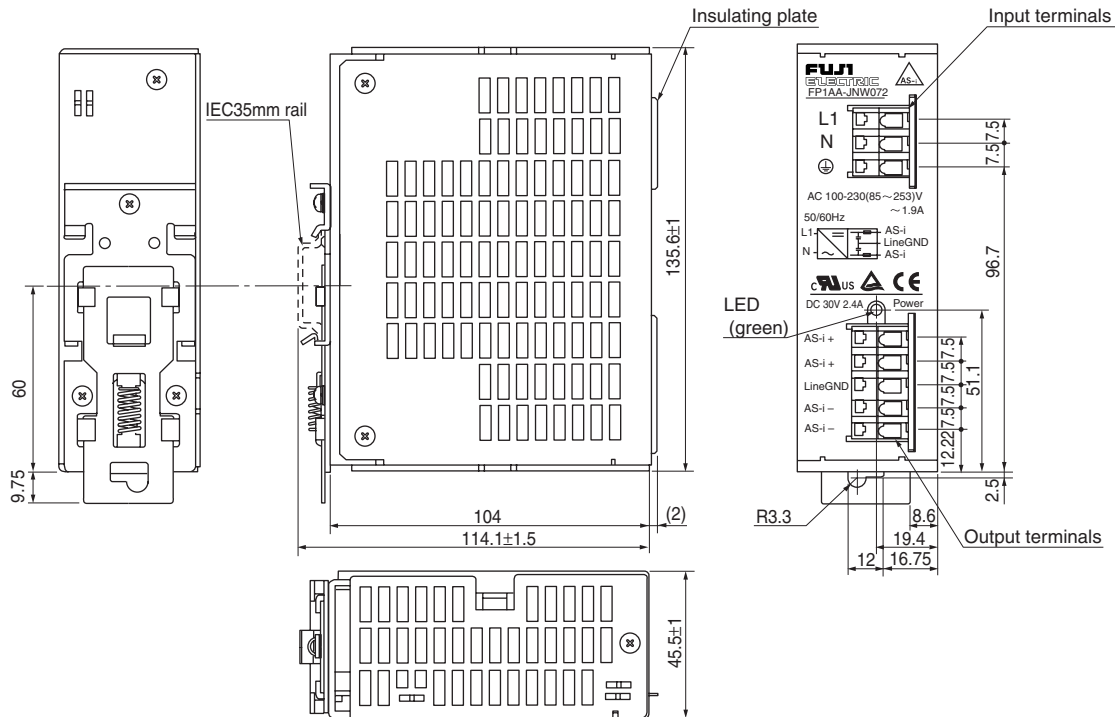
FP1AA-JNW072



* Fuse F1 not replaceable

■ Dimensions, mm

FP1AA-JNW072



Terminal *1	Wire size *2	Wire insertion length	Tightening torque
Input	0.08 to 2.5mm ²	5 to 6mm	— (Screwless terminal)
Output	0.08 to 2.5mm ²	5 to 6mm	— (Screwless terminal)

*1 WAGO-made terminal 741-30□ series or equivalent

*2 When a stick terminal is connected with the crimped electric wire, the maximum wire size becomes one size smaller than the rated value.

Recommended stick terminal crimping tool: 206-204 (WAGO)

Wire size (mm ²)	Type of stick terminal	Manufacturer
0.25	216-321	WAGO
0.5	216-221	Corporation
0.75	216-222	
1.0	216-223	
1.5	216-224	
2.08	216-205	