

REPORT

78 Series



finder[®]
SWITCH TO THE FUTURE

Industrial Switch Mode Power Supplies

Type 78.1B

The newest addition to Finder's range of high efficiency power supplies for electrical and electronic applications. Adjustable output voltage with overload and short circuit protection.

Addresses the need for low voltage power within industrial automation systems, control and measurement systems, and LED lighting.

Approvals (according to type)



Type 78.1B
output 5 A, 24 V DC

Front panel replaceable
fuse for Input protection



Thermal protection
with LED status indication
(type 78.1D, 78.2E only)



Auxiliary contact
indication
(type 78.1D, 78.2E only)



Features

- Low stand-by power
- Ambient temperature range: -20...+70°C

	78.1B.1.230.2403	78.1D.1.230.2414 78.1D.1.230.2415	78.2E.1.230.2414 78.2E.1.230.2415
	- Compact size - Stand-by power consumption down to 1 W - High efficiency 93%	- Power factor: 0.998 - Boost current: without time limit - Suitable for battery charging	- Power factor: 0.998 - Boost current: without time limit - High efficiency 93%
Rated Output Voltage	24V DC	24V DC	24V DC
Output Voltage Adjust	24...28 V	24...28 V	24...28 V
Rated Output Current	5 A (230 V AC input) 4.5 A (full input range)	5.4 A	10 A
Rated Output Power	120 W (230 V AC input) 110 W (full input range)	130W	240W
Input voltage range	100...265 V AC 140...275 V DC (polarised)	88...265 V AC 95...275 V DC (non-polarised)	88...265 V AC 90...275 V DC (non-polarised)
Dual stage with active - Power Factor Corrector	—	YES	YES
Dimensions (w x h x d)	40 x 130 x 104 mm	40 x 130 x 130 mm	60 x 130 x 130 mm

78.1D, 78.2E LED table

State	DC OK ALARM	LED	Contact 13-14 78.1D.1.230.2414 78.2E.1.230.2414	Contact 13-14 78.1D.1.230.2415 78.2E.1.230.2415
			OK	DC OK ALARM
Overload (78.1D only)	DC OK ALARM	 OFF		
Short circuit	DC OK ALARM	 OFF		
Thermal limit	DC OK ALARM	 OFF		
Thermal protection Remove the supply voltage, following the intervention of the thermal protection, in order to reset the power supply	DC OK ALARM	OFF 		

Feedback contact switching mode: Type 78.xx.x.xxx.24x4 ("positive logic")

The NO contact closes when power is applied to the unit and remains closed unless there is a serious fault preventing the power supply unit from delivering output current. (Such as a broken fuse, power supply failure, short-circuit or thermal protection.)
This version is suitable, for example, for signalling to a remote PLC all those alarms representing a service interruption of the power supply output.

Feedback contact switching mode: Type 78.xx.x.xxx.24x5 ("pre-alarm")

The NO contact closes when an anomaly happens (Overload, short circuit, thermal limit, thermal protection).
This version is suitable, for example, for activating visual or audible alarms, or to activate a cooling fan.

78.1B.1.230.2403 LED table

State	LED
OK	
Short circuit	 15s OFF
Thermal limit	 OFF