

78  
SERIES

# REPORT

Type 78.2E

*new*

## Industrial Switch Mode Power Supplies

New switch mode, dual stage, 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.



Type 78.2E  
10 A, 24 V DC output

Front panel replaceable fuse for Input protection



Thermal protection with LED status indication



Auxiliary contact indication



Type

78.1C.1.230.2404  
78.1C.1.230.2405



- High efficiency 90%
- Suitable for battery charging

78.1D.1.230.2414  
78.1D.1.230.2415



- Suitable for battery charging
- Power factor: 0.998

78.2E.1.230.2414  
78.2E.1.230.2415



- High efficiency 93%
- Power factor: 0.998

Features

- Low stand-by power
- Boost current: without time limit
- Ambient temperature range: -20...+70°C

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	5.4 A	10 A
Rated Output Power	120W	130W	240W
Input voltage range	110...265 V AC 155...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 130 mm	40 x 130 x 130 mm	60 x 130 x 130 mm

Auxiliary 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.*

State	LED	Contact 13-14
OK	DC OK ● (green) ALARM (red)	OFF (NO contact closed)
Overload <i>for 78.1C and 78.1D only</i>	DC OK ● (green) ALARM (red)	OFF (NO contact closed)
Short circuit	DC OK ● (green) ALARM (red)	OFF (NO contact closed)
Thermal limit	DC OK ● (green) ALARM (red)	OFF (NO contact closed)
Thermal protection	DC OK ● (green) ALARM (red)	OFF (NO contact closed)

Auxiliary contact switching mode:  
Type 78.xx.x.xxx.24x5

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.*



State	LED	Contact 13-14
OK	DC OK ● (green) ALARM (red)	OFF (NO contact closed)
Overload <i>for 78.1C and 78.1D only</i>	DC OK ● (green) ALARM (red)	ON (NO contact open)
Short circuit	DC OK ● (green) ALARM (red)	ON (NO contact open)
Thermal limit	DC OK ● (green) ALARM (red)	ON (NO contact open)
Thermal protection	DC OK ● (green) ALARM (red)	ON (NO contact open)