

# DFX4524A



- For industrial and residential applications
- Wide input range: 100 - 240 Vac
- Flexible power continuity up to 48 W
- Protection class II
- Wide temperature range: -25 to 70 °C
- Overload, overvoltage and short-circuit protection
- DIN Rail and wall mounted
- Extremely small size
- 3 years warranty

## Input Data

Nominal input voltage range	100 – 240 Vac
AC input voltage range	85 – 264 Vac (see Derating Curve)
DC input voltage range	120 – 250 Vdc Connect N(+), L(-)
AC frequency range	47 – 63 Hz
Input current (approx.)	0.76 A (120 Vac) 0.44 A (230 Vac)
Inrush current (typ.)	≤ 20 A (≤ 5 ms)
Hold-up time	> 10 ms (120 Vac) > 60 ms (230 Vac)
Start-up delay (max.)	1 s
Internal fuse	T 2.5 A, slow-blow
External MCB (recommended)	6 A (curve B)

## Output Data

Output voltage (factory setting)	24 Vdc ±3%
Output voltage range	22 – 29 Vdc
Output current at 24 Vdc	2 A (see Derating Curve)
Output power	48 W (see Derating Curve)
Maximum output current	5 A
Residual ripple	≤ 50 mV <sub>pp</sub> (20 MHz, 50Ω)
Efficiency	≥ 85 %
Start-up with capacitive load	≤ 30.000μF
Over temperature protection	Shut-down and automatic restart
Overload protection	Continuous current mode
Short-circuit protection	Continuous current mode
Over voltage protection	Yes (typ. 35 Vdc)
Parallel connection	Yes
Series connection	Yes

## Environment Data

Operational temperature	-25 to 70 °C (see Derating Curve)
Storage temperature	-40 to 85 °C
Operational humidity (25 °C)	≤ 90 %, no condensation

## General Data

Insulation voltage (Input/Output)	3000 Vac
Protection class	II
Protection degree (EN 60529)	IP 20
Pollution degree	2
MTBF	> 500.000 h
Screw type connection	0.2 - 2.5 mm <sup>2</sup> (24 – 12 AWG) 0.6 - 0.8 Nm
Housing material	Polycarbonate
Foot latch material	Plastic POM
Dimension (WxHxD)	54 x 90 x 61 mm
Weight (approx.)	0.2 Kg

## EMC

Noise immunity according to EN61000-6-2: EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6.

Emitted interference according to EN61000-6-3: class B for industrial and residential area.

## Certification

CE mark according to EMC 2014/30/UE and Low Voltage Directive 2014/35/UE.

## Standards

EN 60204-1, EN 60950-1, EN 50178, ANSI/ISA-12.12.01 Class I Division 2

## Approvals (Pending)

UL 508, UL 60950, UL 1310 (NEC Class 2)

## Derating Curves

