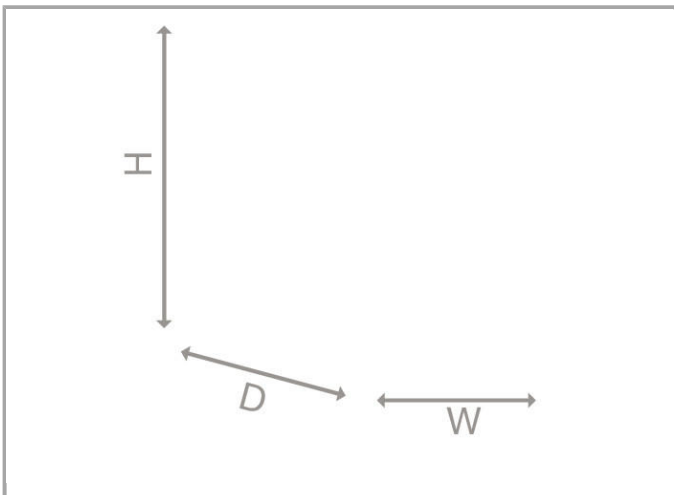
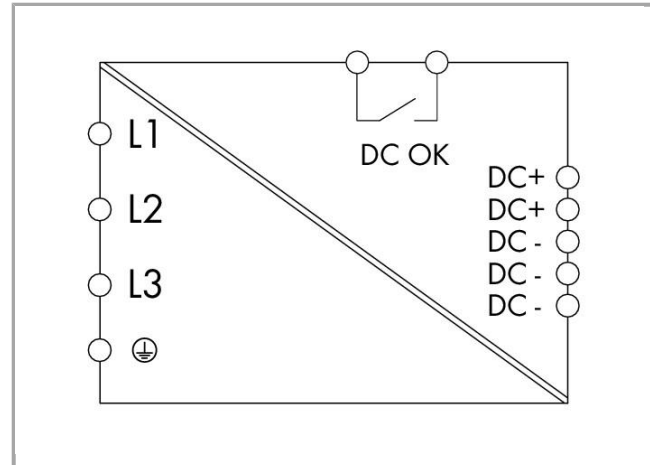
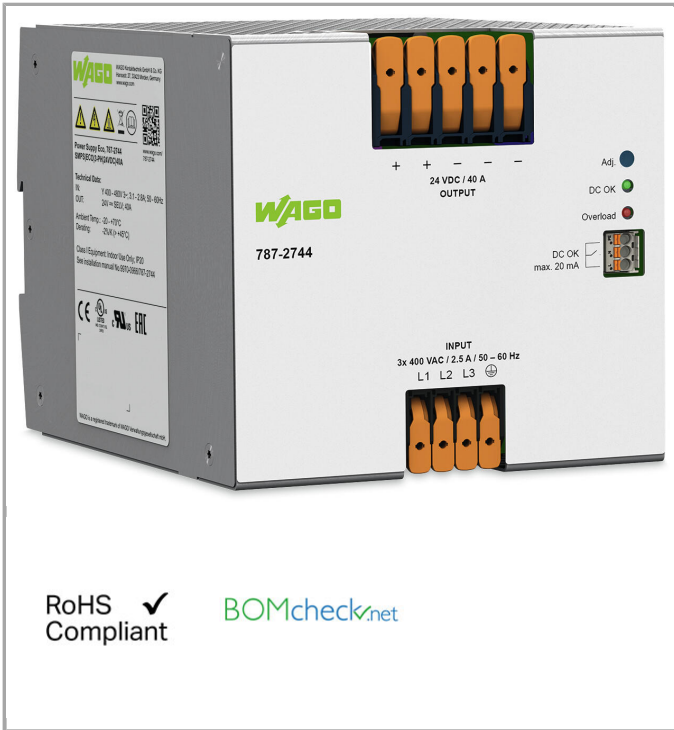


Data sheet | Item number: 787-2744

Switched-mode power supply; Eco; 3-phase; 24 VDC output voltage; 40 A output current; DC OK contact



787-2744



Item description

Features:

- Economical power supply for standard applications
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Fast and tool-free termination via lever-actuated terminals with push-in connection technology

- DC OK signal output
- Parallel operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

Data

Technical Data

Input

Phases	2 3
Nominal input voltage $U_{i\text{nom}}$	(2 / 3) x AC 400 ... 480 V
Input voltage range	(2 / 3) x AC 325 ... 575 V; DC 560 ... 700 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current I_i	$\leq 3 \times 2.5 \text{ A}$ (400 VAC)
Discharge current	$\leq 3.5 \text{ mA}$
Inrush current	$\leq 30 \text{ A}$ (400 VAC)
Power factor	≥ 0.7 (400 VAC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 10 \text{ ms}$ (3 x 400 VAC)

Output

Nominal output voltage $U_{o\text{nom}}$	DC 24 V (SELV)
Output voltage range	DC 22 ... 28 V (adjustable)
Factory preset	DC 24 V
Nominal output current $I_{o\text{nom}}$	40 A (24 VDC)
Nominal output power	960 W
Adjustment accuracy	$\leq 1 \%$
Residual ripple	$\leq 150 \text{ mV}$ (peak-to-peak)
Overload behavior	Constant power (in overload range: $1.05 \dots 1.4 \times I_{o\text{nom}}$); shutdown and automatic restart in the event of a short circuit

Signaling and communication

Signaling	1 x LED DC OK (green) 1 x LED overload (red) 1x signal output DC OK (PhotoMOS as make contact; max. load: 31.2 VDC / 100 mA)
Operation status indicator	LED green (U_o) LED red (overload)

Efficiency/Power losses:

Power loss P_v	≤ 89 W (400 VAC; nominal load)
Efficiency	91.5 % (400 VAC; nominal load)

Fuse protection:

External fuse (required)	an external DC fuse required for DC input voltage
External fuse (recommended)	3 x circuit breakers ≥ 10 A, characteristic: B or C

Safety and protection:

Protection class	I
Protection class	IP20 (per EN 60529)
Feedback voltage	≤ DC 30 V
Overvoltage category	III
Transient protection, primary	Varistor
Short circuit protection	Yes
No-load proof	Yes
Parallel operation	Yes
Series connection	Max. 2 devices
MTBF	> 1,300,000 h (per IEC 61709)

Connection data

Connection type (1)	Input
Connection technology	Push-in CAGE CLAMP®
WAGO terminal	WAGO 2606 Series
Solid conductor	0.5 ... 6 mm ² / 20 ... 10 AWG
Fine-stranded conductor	0.5 ... 6 mm ² / 20 ... 10 AWG
Strip length	11 ... 13 mm / 0.43 ... 0.51 inch
Connection type (2)	Output
Connection technology 2	Push-in CAGE CLAMP®
WAGO terminal 2	WAGO 2616 Series
Solid conductor (2)	0.75 ... 16 mm ² / 18 ... 4 AWG
Strip length (2)	18 ... 20 mm / 0.71 ... 0.79 inch
Connection type (3)	Signaling
Connection technology 3	Push-in CAGE CLAMP®
WAGO terminal 3	picoMAX® 3.5, WAGO 2091 Series
Solid conductor (3)	0.2 ... 1.5 mm ² / 24 ... 14 AWG
Fine-stranded conductor (3)	0.2 ... 1.5 mm ² / v ... 14 AWG
Strip length (3)	8 ... 9 mm / 0.31 ... 0.35 inch



Geometrical Data

Width	140 mm / 5.512 inch
Height	130 mm / 5.118 inch
Length from upper-edge of DIN-35 rail	170 mm / 6.693 inch

Mechanical data

Type of mounting	DIN-35 rail (EN 60715)
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Material Data

Fire load	0MJ
Weight	2630g

Environmental Requirements

Surrounding air (operating) temperature	-20 ... 70 °C
Surrounding air (storage) temperature	-40 ... 85 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	-2 %/K (> 45 °C)
Pollution degree	2
Climatic category	3K3 (per EN 60721)
Shock and vibration resistance	Shock: 15 g (per EN 60068-2-27) Vibration: 1 g (per EN 60068-2-6)

Standards and specifications

Conformity marking	CE; EAC
Standards/specifications	EN 61204-3; EN 60950-1; EN 62368-1; cURus 60950-1; cURus 62368-1; cULus 508; CSA C22.2

Commercial data

GTIN	4055143588980
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Product family

EPSITRON ECO Power
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Subject to changes.