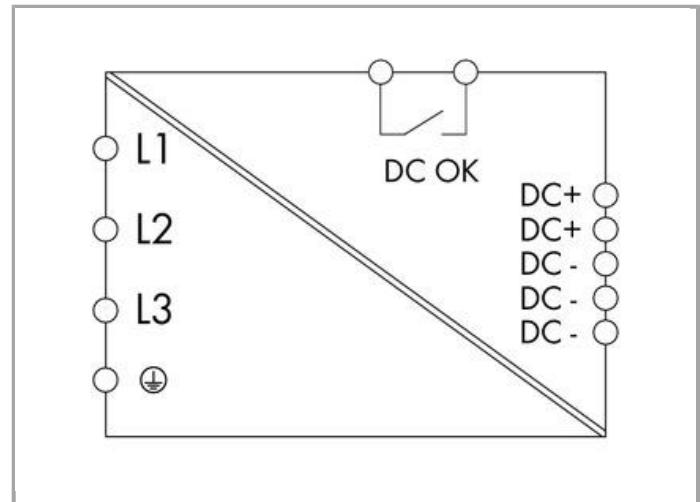


Data sheet | Item number: 787-2742

Switched-mode power supply; EPSITRON® ECO Power; 3-phase; 24 VDC output voltage; 20 A output current; DC OK contact

www.wago.com/787-2742



RoHS Compliant

[BOMcheck.net](https://www.bomcheck.net)

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 60204-1

Data

Technical Data



Input

Phases	2 3
Nominal input voltage $U_{i\text{ nom}}$	(2 / 3) x 400 ... 480 VAC
Input voltage range	(2 / 3) x 325 ... 575 VAC; 560 ... 700 VDC
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current I_i	$\leq 3 \times 1.2 \text{ A}$ (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 $U_{o\text{ nom}}$	24 VDC (SELV)
Output voltage range	24 ... 28 VDC (adjustable)
Factory preset	24 VDC
Nominal output current $I_{o\text{ nom}}$	20 A (24 VDC)
Nominal output power	480 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	$\leq 50 \text{ W}$ (400 VAC; nominal load)
Efficiency	$\geq 90.5 \%$ (400 VAC; nominal load)

**Fuse protection:**

Internal fuse	3 x T 3.15 A / 500 VAC
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:

Insulation voltage (PRI-SEC)	4.242 kV DC
Isolation voltage (PRI-GND)	2.2 kV DC
Insulation voltage (SEC-GND)	0.7 kV DC
Insulation voltage (SEC-Signal)	0.7 kV DC
Protection class	I
Degree of protection	IP20 (per EN 60529)
Feedback voltage	≤ 30 VDC
Overvoltage category	III
Transient protection, primary	Varistor
Short circuit protection	Yes
No-load proof	Yes
Parallel operation	Yes
Series connection	Max. 2 devices
MTBF	> 1,800,000 h (per IEC 61709)

Connection data

Connection type (1)	Input/Output
Connection technology	Push-in CAGE CLAMP®
WAGO terminal	WAGO 2606 Series
Solid conductor	0.5 ... 6 mm² / 20 ... 10 AWG
Fine-stranded conductor	0.5 ... 6 mm² / 20 ... 10 AWG
Strip length	11 ... 12 mm / 0.43 ... 0.47 Inch
Connection type (2)	Signaling
Connection technology 2	Push-in CAGE CLAMP®
WAGO terminal 2	picoMAX® 3.5, WAGO 2091 Series
Solid conductor (2)	0.2 ... 1.5 mm² / 24 ... 14 AWG
Fine-stranded conductor (2)	0.2 ... 1.5 mm² / 24 ... 14 AWG
Strip length (2)	8 ... 9 mm / 0.31 ... 0.35 Inch

Geometrical Data

Width	80 mm / 3.15 inch
Height	130 mm / 5.118 inch

Length from upper-edge of DIN-35 rail	170 mm / 6.693 inch
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Mechanical data

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

Weight	1710 g
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Environmental Requirements

Surrounding air (operating) temperature	-25 ... 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; cRUus 60950-1; cRUus 62368-1; cULus 508; CSA C22.2

Commercial data

Packaging type	BOX
Country of origin	CN
GTIN	4055143588973

Approvals / Certificates

UL-Approvals

Logo	Approval	Certificate name
	UL UL Multiple Listing UL LLC	E255815
	UL Underwriters Laboratories Inc.	E255817
	UL Underwriters Laboratories Inc.	E255815



Downloads

Documentation

Instruction Leaflet

EPSITRON ECO DC Power Supply	V 1.4.0 11/jun/2018	PDF 1.0 MB	Download
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Additional Information

Disposal; Electrical and electronic equipment, Packaging	15/out/2018	265.8 kB	Download
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Product family

EPSITRON ECO Power

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Subject to changes.