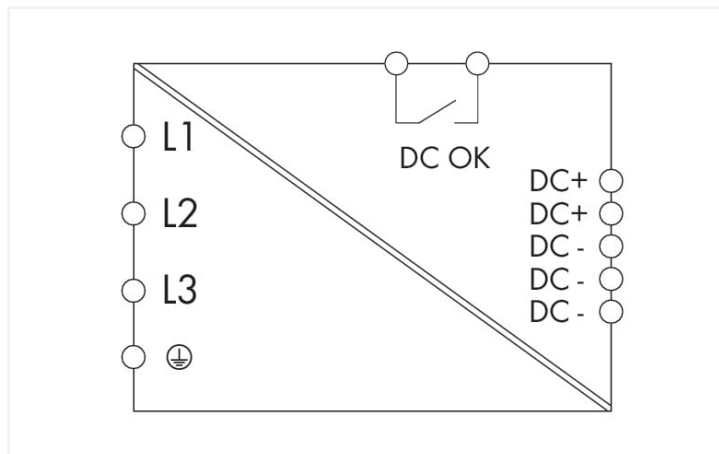


## Data Sheet | Item Number: 787-738

Switched-mode power supply; Eco; 3-phase; 24 VDC output voltage; 6.25 A output current; DC OK contact

<https://www.wago.com/787-738>



### Features:

- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated PCB terminal blocks
- Bounce-free switching signal (DC OK) via optocoupler
- Parallel operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

### Technical data

Input		Output	
Phases	2 / 3	Nominal output voltage $U_{o, nom}$	DC 24 V (SELV)
Nominal input voltage $U_{i, nom}$	(2 / 3) x AC 400 ... 500 V	Output voltage range	DC 22 ... 28 V (adjustable)
Input voltage range	(2 / 3) x AC 360 ... 575 V; DC 500 ... 650 V	Default setting	DC 24 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz	Nominal output current $I_{o, nom}$	6.25 A (24 VDC)
Input current $I_i$	$\leq 3 \times 0.6$ A (400 VAC; 24 VDC / 6.25 A)	Nominal output power	150 W
Discharge current	$\leq 3.5$ mA	Deviation	$\leq 1$ %
Inrush current	$\leq 25$ A	Residual ripple	$\leq 100$ mV (peak-to-peak)
Power factor	$\geq 0.5$	Overload behavior	Constant power (in overload range: $1.15 \dots 1.4 \times I_{o, nom}$ ); Shutdown and automatic restart in the event of a short circuit
Power factor correction (PFC)	Passive		
Mains failure hold-up time	$\geq 17$ ms (3 x 400 VAC)		

### Signaling and communication

Signaling	1 x LED DC OK (green) 1 x Overload LED (red) 1 x DC OK signal output (optocoupler as make contact; max. 31.2 V; 20 mA)
Operation status indicator	Green LED ( $U_o$ ) Red LED (overload)

### Efficiency/power losses

Power loss $P_I$	$\leq 18.5$ W
Power loss (max.) $P_{I(max)}$	20 W
Efficiency (typ.)	87 %

### Circuit protection

Internal fuse	3 x T 2 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x Circuit breaker $\geq 6$ A; Tripping characteristic: B or C Alternative: motor circuit breaker

### Safety and protection

Isolation voltage (pri.-sec.)	DC 4.242 kV
Isolation voltage (pri.-PE)	DC 2.2 kV
Isolation voltage (sec.-PE)	DC 0.7 kV
Isolation voltage (sec.-signal)	DC 0.7 kV
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ DC 30 V
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 250,000 h (per IEC 61709)

### Connection data

Connection type 1	Input/output
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 2706 Series
Solid conductor	0.5 ... 6 mm <sup>2</sup> / 20 ... 10 AWG
Fine-stranded conductor	0.5 ... 6 mm <sup>2</sup> / 20 ... 10 AWG
Strip length	11 ... 12 mm / 0.43 ... 0.47 inches
Connection type 2	Signaling
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	<i>picoMAX</i> ® 3.5 (WAGO 2091 Series)
Solid conductor 2	0.2 ... 1.5 mm <sup>2</sup> / 24 ... 14 AWG
Fine-stranded conductor 2	0.2 ... 1.5 mm <sup>2</sup> / 24 ... 14 AWG
Strip length 2	8 ... 9 mm / 0.31 ... 0.35 inches

### Physical data

Width	50 mm / 1.969 inches
Height	130 mm / 5.118 inches
Depth from upper-edge of DIN-rail	92 mm / 3.622 inches

### Mechanical data

Mounting type	DIN-35 rail
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### Material data

Fire load	0 MJ
Weight	844 g

### Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	-2.5%/K (> 50°C; 400°VAC)
Climatic category	3K3 (per EN 60721)

### Standards and specifications

Conformity marking	CE
Standards/specifications	EN 62368-1 EN 61204-3 (Class A) UL 60950-1 UL 508 SEMI F47

### Commercial data

eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4050821847861
Customs tariff number	85044083900

### Environmental Product Compliance

RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Bulgaria)	6ad76c2f-5e1d-4e81-863e-4937bfb36fc5
SCIP notification number (Czech Republic)	3cb75b15-0728-4ff4-a13e-55912c975eb3

### Approvals / Certificates

#### General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03078
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc.	UL 508	E255817
UL Underwriters Laboratories Inc.	UL 60950-1	E255815

#### Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
MFD for SEMI F47 WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-738



Documentation

Bid Text

787-738	12.07.2019	xml 7.26 KB	
787-738	12.07.2019	docx 23.13 KB	

Instruction Leaflet

Primary Switch Mode Power Supply ECO-Power	V 1.3.5 21.12.2020	pdf 280.65 KB	
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CAD/CAE-Data

CAD data

2D/3D Models 787-738



CAE data

EPLAN Data Portal 787-738	
WSCAD Universe 787-738	
ZUKEN Portal 787-738	

1 Compatible Products

1.1 Optional Accessories

1.1.1 Tool

1.1.1.1 Operating tool



[Item No.: 210-719](#)

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

[Item No.: 210-769](#)

SCREWDRIVER; green