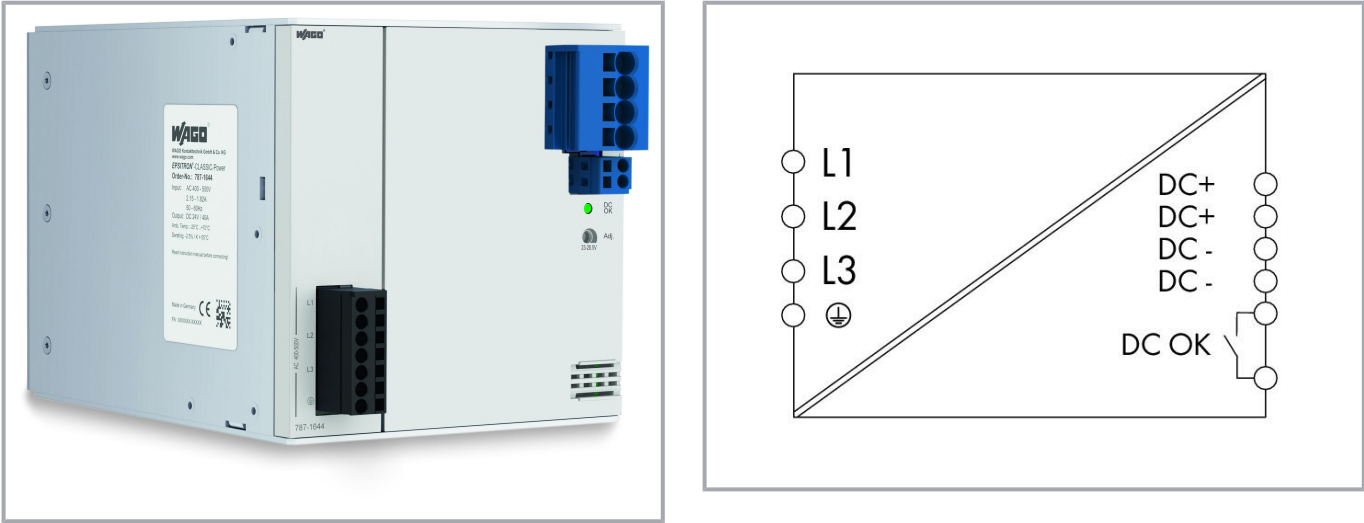




Item description

Features:

- Switched-mode power supply with TopBoost, enabling secondary-side protection via circuit breakers
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Data
Technical data

Input

Phases	2 / 3
Nominal input voltage $U_{i\,nom}$	(2 / 3) x AC 400 ... 500 V
Input voltage range	(2 / 3) x AC 320 ... 575 V; DC 450 ... 800 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz

Subject to changes. Please also observe the further product documentation!

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Input current I_i	$\leq 3 \times 2.15 \text{ A (400 VAC)}; \leq 3 \times 1.82 \text{ A (500 VAC)}$
Inrush current	$\leq 30 \text{ A (NTC)}$
Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 25 \text{ ms (500 VAC)}; \geq 15 \text{ ms (400 VAC)}$

Output

Nominal output voltage $U_{o \text{ nom}}$	DC 24 V (SELV)
Output voltage range	DC 23 ... 28.5 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o \text{ nom}}$	40 A (24 VDC)
Nominal output power	960 W
Deviation	$\leq 1 \%$
Residual ripple	$\leq 30 \text{ mV (peak-to-peak)}$
Current limitation	$1.1 \times I_{o \text{ nom}}$ (typ.)
Overload behavior	Constant current

Signaling and communication

Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)

Efficiency/power losses

Power loss P_i	$\leq 4.2 \text{ W}; \leq 83.9 \text{ W (400 VAC; nominal load)}$
Power loss (max.) $P_{i \text{ (max.)}}$	83.9 W (500 VAC / 24 VDC; 40 A)
Efficiency (typ.)	92 %

Circuit protection

Internal fuse	No
Backup fusing (required)	Alternative: motor circuit breaker An external DC fuse is required for the DC input voltage.

Safety and protection

Isolation voltage (sec.-PE)	DC 0.7 kV
Protection class	I
Protection type	IP20; per EN 60529

Subject to changes. Please also observe the further product documentation!



Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Internal protective circuit ≤ 40 VDC (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 500,000 h (per IEC 61709)

Connection data

Connection type 1	Input/Signaling
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 721 Series
Solid conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Connection type 2	Output
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 831 Series
Solid conductor 2	0.5 ... 10 mm² / 20 ... 8 AWG
Fine-stranded conductor 2	0.5 ... 10 mm² / 20 ... 8 AWG
Strip length 2	13 ... 15 mm / 0.51 ... 0.59 inches

Physical data

Width	126 mm / 4.96 inches
Height	127 mm / 5 inches
Depth from upper-edge of DIN-rail	198 mm / 7.795 inches

Mechanical Data

Mounting type	DIN-35 rail
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Material data

Fire load	0.914 MJ
Weight	2800 g

Subject to changes. Please also observe the further product documentation!



Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C (Device starts at -40 °C (type-tested))
Ambient temperature (storage)	-25 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	-2.5 %/K (> 55 °C)

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 UL 60950-1 UL 508 DNV 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
Recupel Type	
PU (SPU)	1 pcs
Packaging type	box
Country of origin	DE
GTIN	4055143259187
Customs tariff number	85044083900

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 004/2011, TP TC 020/2011	EAC RU C-DE.AM02.B.

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UL
Underwriters Laboratories Inc.

UL 508

E255817



UL
Underwriters Laboratories Inc.

UL 60950-1

E255815

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	MFD for SEMI F47 WAGO GmbH & Co. KG	-	-

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	DNV DNV Germany GmbH	DNV-CG-0339, Aug. 2021	TAA00000KT

Optional accessories

Mounting adapter

DIN-rail adapter



Item no.: 787-897/000-010

Carrier rail adapter made of zinc die-cast; horizontal mounting of 787-16xx (TS35)

www.wago.com/787-897/000-010

Marking accessories

Marking strip

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**Item no.: 2009-110**

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

www.wago.com/2009-110**Item no.: 210-831**

Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white

www.wago.com/210-831**Item no.: 210-832**

Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

www.wago.com/210-832**Marker****Item no.: 2009-145**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

www.wago.com/2009-145**Item no.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

www.wago.com/2009-115**Item no.: 248-501**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

www.wago.com/248-501**Item no.: 793-501**

WMB marking card; as card; not stretchable; plain; snap-on type; white

www.wago.com/793-501**Item no.: 793-5501**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

www.wago.com/793-5501**Tool****Operating tool****Item no.: 210-721**

Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-721**Item no.: 210-769**

SCREWDRIVER; green

www.wago.com/210-769**Item no.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-720**Downloads****Documentation****Bid Text**

Subject to changes. Please also observe the further product documentation!

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787-1644 X81 - Datei	2019 Jul 4	xml 7.5 kB	Download
787-1644 docx - Datei	2019 Jun 13	docx 22.2 kB	Download
Instruction Leaflet			
Primär getaktete Stromversorgungen CLASSIC DC 24 V, 40 A		pdf 170.2 kB	Download
Additional Information			
Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 Aug 18	pdf 2.2 MB	Download

Engineering-Software

Configuration and Commissioning Software

WAGO Line Length Calculation	1.3.5	exe	Download
Die WAGO Leitungslängenrechnung hilft bei der Planung der sekundärseitigen Absicherung von Leitungen an WAGO Stromversorgungen Pro (787-8xx) und Classic (787-16xx). Nach Auswahl eines Netzgerätes kann der gewünschte Leitungsquerschnitt und der zugehörige Leitungsschutzschalter ausgewählt werden. Das Software-Werkzeug berechnet dann die maximale Leitungslänge, bei der die Absicherung unter Berücksichtigung der Leitungs- und Übergangswiderstände ordnungsgemäß funktioniert. Die Auswahl einer Grundlast kann vom Anwender vorgenommen werden.	2019 Dec 9	337.4 kB	

CAD/CAE-Data

CAD data

2D/3D Models 787-1644	URL	Download
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CAE data

EPLAN Data Portal 787-1644	URL	Download
WSCAD Universe 787-1644	URL	Download
ZUKEN Portal 787-1644	URL	Download

Subject to changes. Please also observe the further product documentation!

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Asset Administration Shell

Asset Administration Shell 787-1644	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1644	URL	Download
Switched-mode power supply; Classic; 3-phase; 24 VDC output voltage; 40 A output current; TopBoost; DC OK contact		

Installation Notes

Product family

- Classic
- EPSITRON® CLASSIC POWER: The Robust Power Supply – with Integrated TopBoost (Optional)
- [Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!