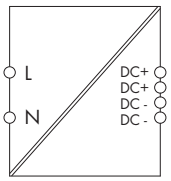
Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 5 VDC / 5.5A	**787-1020**	1

Technical Data

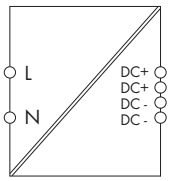
Input:	
Nominal input voltage $V_{i\ nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Frequency	44 Hz ... 66 Hz; 0 Hz
Input current I_i	0.6 A at 110 VAC;
	0.3 A at 230 VAC
Discharge current	1 mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 10 ms at 110 VAC;
	> 80 ms at 230 VAC
Output:	
Nominal output voltage $V_{o\ nom}$	5 VDC, SELV
Output voltage range	4.5 ... 8.5 VDC adjustable
Factory preset	5 VDC
Output current I_o	5.5 A at 5 VDC;
	max. 3.5 A in any mounting position
Adjustment accuracy	< 2 %
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency/Power Losses:	
Efficiency	75 % typ.
Power loss P_V	2.4 W (230 VAC, no load)
	9.4 W (230 VAC, nominal load)
Max. power loss P_V	9,9 W typ. (264 VAC; 5 VDC, 5,5 A)
Fuse Protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 6 A, 10 A, 16 A,
	B or C characteristic;
	an external DC fuse is required for the DC
	input voltage

Technical Data

Environmental Requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Relative humidity	5 % ... 96 % (no condensation permissible)
Derating	-3 % / K (> 45 °C)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage PRI–SEC	4.2 kV DC
Protection class	II
Degree of protection	IP20 acc. to EN 60529
Overvoltage category	II
Overvoltage protection	< 16 VDC (in the event of a fault)
Short circuit protection	Yes
No-load proof	Yes
Feedback voltage	Max. 10 VDC
Parallel operation	Yes
Series connection	Yes
MTBF	> 500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in.
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	72 x 89 x 59
	Length: 55 mm, from upper-edge of DIN
Weight	240 g
Standards and Specifications:	
Standards/specifications	EN 60950-1, EN 61204-3,
	UL 60950-1, UL 508, GL*
	(*pending)

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-mode power supply, 12 VDC / 2A	**787-1001**	1

Technical Data

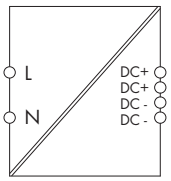
Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	< 100 VAC: Ia max. 1.5 A
Frequency	44 ... 66 Hz; 0 Hz
Input current I_i	0.6 A at 110 VAC / 0.4 A at 230 VAC
Discharge current	1mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 10 ms at 110 VAC /
	> 80 ms at 230 VAC
Output:	
Nominal output voltage $V_{o\,nom}$	12 VDC (SELV)
Output voltage range	10.8 ... 18 VDC adjustable
Output current I_o	2 A at 12 VDC
	0.75 A at 18 VDC
	max. 1.4 A (12 VDC) in any mounting
	position
Factory preset	12 VDC
Adjustment accuracy	2%
Residual ripple	< 150 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency / power losses:	
Efficiency	80 % typ.
Power loss P_V	2.6 W (230 VAC/no load),
	6.0 W (230 VAC/rated load)
Max. power loss P_V	6 W typ. (100 VAC / 12 VDC, 2 A)
Fuse protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	B or C characteristic
	an external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Rel. humidity	5 % ... 96 % (no condensation permissible)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage category	II
Overvoltage protection	< 30 VDC (in the event of a fault)
Short circuit protection	Yes
No-load proof	Yes
Feedback voltage	Max. 20 VDC
Parallel operation	Yes
Series connection	Yes
MTBF	500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in.
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	54 x 89 x 59
	Length: 55 mm, from upper-edge of DIN 35 rail
Weight	180 g
Standards and approvals:	
Standards/specifications	EN 60950, EN 61204-3,
	UL 60950, UL 508, GL

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-mode power supply, 12 VDC / 4A	**787-1011**	1

Technical Data

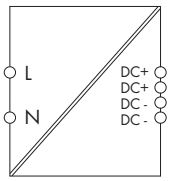
Input:	
Nominal input voltage $V_{i\ nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	< 100 VAC: Ia max. 3.5 A
Frequency	44 ... 66 Hz; 0 Hz
Input current I_i	0.9 A at 110 VAC / 0.5 A at 230 VAC
Discharge current	1mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 10 ms at 110 VAC /
	> 80 ms at 230 VAC
Output:	
Nominal output voltage $V_{o\ nom}$	12 VDC (SELV)
Output voltage range	10.5 ... 15.5 VDC adjustable
Output current I_o	4 A at 12 VDC
	max. 2.4 A in any mounting position
Factory preset	12 VDC
Adjustment accuracy	2%
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency / power losses:	
Efficiency	85 % typ.
Power loss P_V	2.2 W (230 VAC/no load),
	8.5 W (230 VAC/rated load)
Max. power loss P_V	9 W typ. (100 VAC / 12 VDC, 4 A)
Fuse protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	B or C characteristic
	an external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Rel. humidity	5 % ... 96 % (no condensation permissible)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage category	II
Overvoltage protection	< 30 VDC (in the event of a fault)
Short circuit protection	Yes
No-load proof	Yes
Feedback voltage	Max. 20 VDC
Parallel operation	Yes
Series connection	Yes
MTBF	500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in.
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	72 x 89 x 59
	Length: 55 mm, from upper-edge of DIN 35 rail
Weight	255 g
Standards and approvals:	
Standards/specifications	EN 60950, EN 61204-3,
	UL 60950, UL 508, GL

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-mode power supply, 12 VDC / 6.5A	**787-1021**	1

Technical Data

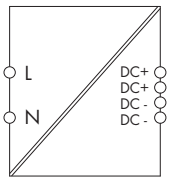
Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	Max. 6 A (< 100 VAC) /
	5.5 A (< 90 VAC)
Frequency	44 ... 66 Hz; 0 Hz
Input current I_i	1.6 A at 110 VAC / 0.9 A at 230 VAC
Discharge current	1mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 15 ms at 110 VAC /
	> 100 ms at 230 VAC
Output:	
Nominal output voltage $V_{o\,nom}$	12 VDC (SELV)
Output voltage range	10.5 ... 15.5 VDC adjustable
Output current I_o	6.5 A at 12 VDC
	max. 3.9 A (12 VDC) in any mounting
	position
Factory preset	12 VDC
Adjustment accuracy	2%
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency / power losses:	
Efficiency	87 % typ.
Power loss P_V	< 1 W (no load) /
	15 W (rated load)
Max. power loss P_V	15 W typ. (100 VAC / 12 VDC, 6.5 A)
Fuse protection:	
Internal fuse	T 4 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	B or C characteristic;
	an external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +85 °C
Rel. humidity	5 % ... 96 % (no condensation permissible)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage category	II
Overvoltage protection	< 30 VDC (in the event of a fault)
Short circuit protection	Yes
No-load proof	Yes
Feedback voltage	Max. 20 VDC
Parallel operation	Yes
Series connection	Yes
MTBF	500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in.
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	90 x 89 x 59
	Length: 55 mm, from upper-edge of DIN 35 rail
Weight	300 g
Standards and approvals:	
Standards/specifications	EN 60950, EN 61204-3,
	UL 60950, UL 508, GL

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 1.3A	**787-1002**	1

Technical Data

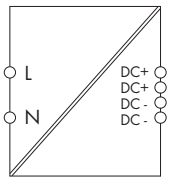
Input:	
Nominal input voltage $V_{i\ nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	< 100 VAC: Ia max. 1 A
Frequency	44 ... 66 Hz; 0H z
Input current I_i	0.7 A at 110 VAC / 0.5 A at 230 VAC
Discharge current	1mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 10 ms at 110 VAC /
	> 80 ms at 230 VAC
Output:	
Nominal output voltage $V_{o\ nom}$	24 VDC (SELV)
Output voltage range	22.8 ... 26.4 VDC adjustable
Output current I_o	1.3 A at 24 VDC
	max. 0.9 A in any mounting position
Factory preset	24 VDC
Adjustment accuracy	2%
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency / power losses:	
Efficiency	82 % typ.
Power loss P_V	2.6 W (230 VAC/no load),
	7.0 W (230 VAC/rated load)
Max. power loss P_V	7.3 W typ. (100 VAC / 24 VDC, 1.3 A)
Fuse protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	B or C characteristic;
	an external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Rel. humidity	5 % ... 96 % (no condensation permissible)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage category	II
Overvoltage protection	< 40 VDC (in the event of a fault)
Short circuit protection	Yes
No-load proof	Yes
Feedback voltage	Max. 30 VDC
Parallel operation	Yes
Series connection	Yes
MTBF	500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in.
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	54 x 89 x 59
	Length: 55 mm, from upper-edge of DIN 35 rail
Weight	180 g
Standards and approvals:	
Standards/specifications	EN 60950, EN 61204-3,
	UL 60950, UL 508, GL

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 2.5A	**787-1012**	1

Technical Data

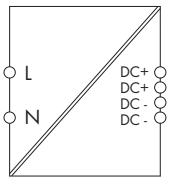
Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	< 100 VAC: Ia max. 2.0 A
	< 90 VAC: Ia max. 1.8 A
Frequency	44 ... 66 Hz; 0 Hz
Input current I_i	1.4 A at 110 VAC / 0.6 A at 230 VAC
Discharge current	1mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 10 ms at 110 VAC /
	> 80 ms at 230 VAC
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC (SELV)
Output voltage range	22.8 ... 26.4 VDC adjustable
Output current I_o	2.5 A at 24 VDC
	max. 1.6 A in any mounting position
Factory preset	24 VDC
Adjustment accuracy	2%
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency / power losses:	
Efficiency	88 % typ.
Power loss P_V	2.2 W (230 VAC/no load),
	8.5 W (230 VAC/rated load)
Max. power loss P_V	10.5 W typ. (100 VAC / 24 VDC, 2.5 A)
Fuse protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	B or C characteristic;
	an external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Rel. humidity	5 % ... 96 % (no condensation permissible)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage category	II
Overvoltage protection	< 40 VDC (in the event of a fault)
Short circuit protection	Yes
No-load proof	Yes
Feedback voltage	Max. 30 VDC
Parallel operation	Yes
Series connection	Yes
MTBF	> 500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in.
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	72 x 89 x 59
	Length: 55 mm, from upper-edge of DIN 35 rail
Weight	255 g
Standards and approvals:	
Standards/specifications	EN 60950, EN 61204-3,
	UL 60950, UL 508, GL

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 4A	**787-1022**	1

Technical Data

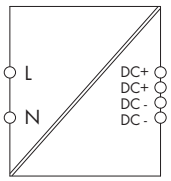
Input:	
Nominal input voltage $V_{i\ nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	On request
Frequency	44 ... 66 Hz; 0 Hz
Input current I_i	1.6 A at 110 VAC / 0.9 A at 230 VAC
Discharge current	1mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 15 ms at 110 VAC /
	> 100 ms at 230 VAC
Output:	
Nominal output voltage $V_{o\ nom}$	24 VDC (SELV)
Output voltage range	22.8 ... 26.4 VDC adjustable
Output current I_o	4 A at 24 VDC
	max. 2.4 A in any mounting position
Factory preset	24 VDC
Adjustment accuracy	2 %
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency / power losses:	
Efficiency	88 % typ.
Power loss P_V	0.8 W (230 VAC/no load),
	13.1 W (230 VAC/rated load)
Max. power loss P_V	14.8 W typ. (264 VAC / 24 VDC, 4 A)
Fuse protection:	
Internal fuse	T 4 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	B or C characteristic;
	an external DC fuse is required for the DC
	input voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Rel. humidity	5 % ... 96 % (no condensation permissible)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage category	II
Overvoltage protection	< 40 VDC (in the event of a fault)
Short circuit protection	Yes
No-load proof	Yes
Feedback voltage	Max. 30 VDC
Parallel operation	Yes
Series connection	Yes
MTBF	500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in.
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	90 x 89 x 59
	Length: 55 mm, from upper-edge of DIN 35 rail
Weight	310 g
Standards and approvals:	
Standards/specifications	EN 60950, EN 61204-3,
	UL 60950, UL 508, GL

Switched-Mode Power Supply, 1-Phase

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- At reduced output current, any type of mounting positions are possible (e.g., horizontal, overhead mounting).
- Electrically isolated output voltage (SELV) acc. to EN / UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 15 ... 28 VDC / 2 A	**787-1017**	1

Technical Data

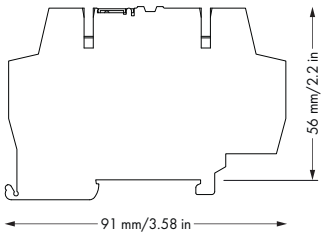
Input:	
Nominal input voltage $V_{i\,nom}$	100 ... 240 VAC
Input voltage range	85 ... 264 VAC; 120 ... 373 VDC
Input voltage derating	Max. 2 A (< 100 VAC)
Frequency	44 Hz ... 66 Hz; 0 Hz
Input current I_i	0.9 A at 110 VAC /
	0.5 A at 230 VAC
Discharge current	1 mA typ.
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 10 ms at 110 VAC /
	> 130 ms at 230 VAC
Output:	
Nominal output voltage $V_{o\,nom}$	18 VDC
Output voltage range	15 ... 28 VDC adjustable
Output current I_o	2.4 A at 18 VDC
	2.0 A at 24 VDC in horizontal mounting
	position
Factory preset	18 VDC
Adjustment accuracy	2 %
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency/Power losses:	
Efficiency	84 % typ.
Power loss P_V	2.6 W (230 VAC / no load)
	8.1 W (230 VAC / nominal load)
Max. power loss P_V	8.2 W (100 VAC / 18 VDC, 2.4 A)
Fuse protection:	
Internal fuse	T 2 A / 250 V
External fuse	Circuit breakers 10 A, 16 A,
	B or C characteristic;
	an external DC fuse is required for the DC
	input voltage

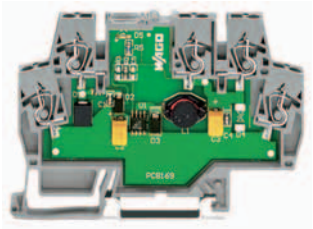
Technical Data

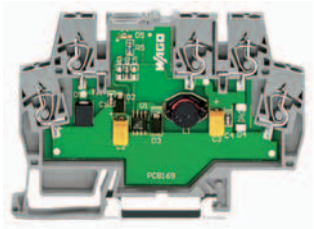
Environmental requirements:	
Ambient operating temperature	-25 °C ... +60 °C
	(UL: -25 °C ... +55 °C);
	Device start at -40 °C (type-tested)
Storage temperature	-25 °C ... +80 °C
Rel. humidity	5 % ... 96 % (no condensation permissible)
Derating	-3 % / K (> 45 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage category	II
Overvoltage protection	< 40 VDC (in the event of a fault)
Short circuit protection	Yes
No-load proof	Yes
Feedback voltage	Max. 25 VDC
Parallel operation	Yes
Series connection	Yes
MTBF	500000 h
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in.
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	72 x 89 x 59
	Length: 55 mm, from upper-edge of DIN 35 rail
Weight	264 g
Standards and approvals:	
Standards/specifications	EN 60950, EN 61204-3,
	UL 60950-1, UL 508, GL*
	(*pending)

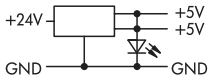
Rail-Mounted Terminal Blocks with DC/DC Converter

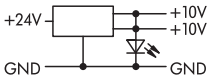
	DC/DC converter 24 V / 5 V, 0.5 ADCADC	DC/DC converter 24 V / 10 V, 0.5 ADC









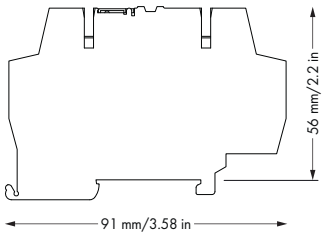


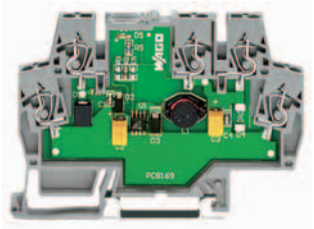
Description	V_N / V_O	Item No.	Pack. Unit	V_N / V_O	Item No.	Pack. Unit
DC/DC converter, for DIN 35 rail	24 VDC / 5 VDC ± 2 %	**859-801**	1	24 VDC / 10 VDC ± 2 %	**859-802**	1

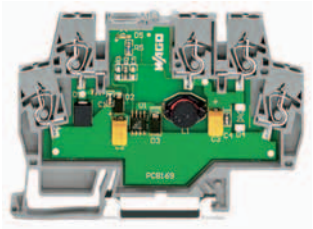
Technical Data

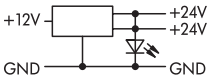
Nominal input voltage (V_N)	24 VDC	24 VDC
Input voltage range	10 ... 30 VDC	15 ... 30 VDC
Output voltage	5 VDC ± 2 %	10 VDC ± 2 %
Output current (max.)	500 mA (individual terminal block, 10 mm distance); 400 mA (terminal strip)	500 mA
Line regulation, max. (full load, over input voltage range)	2 %	0.5 %
Max. load regulation (no load to full load, nominal input	0.5 %	0.7 %
Efficiency at full load (24 VDC in)	70 %	85 %
Output noise peak-to-peak max. (20 MHz bandwidth)	150 mV	20 mV
Switching frequency	200 kHz (nominal)	200 kHz (nominal)
Isolation	Non-isolated	Non-isolated
Reverse voltage protection, input	Yes	Yes
Minimum load requirement	No	No
Max. transient recovery time (recovery time for load change from 25 % to 75% of full load)	40 µs	500 µs
Max. startup time (24 VDC in, full load)	3 ms	3 ms
Max. hold time (nominal input voltage, full load)	1 ms	500 µs
Input fuse	TVS diode	TVS diode
Output short circuit protection	Temporary (short-circuit of the output for 1 minute without damage to the device)	Temporary (short-circuit of the output for 1 minute without damage to the device)
Temperature coefficient	70 ppm/°C	100 ppm/°C
Ambient operating temperature	0 °C ... +40 °C	-25 °C ... +55 °C
Dimensions (mm) W x H x L	6 x 56 x 91 Height from upper-edge of DIN 35 rail	6 x 56 x 91 Height from upper-edge of DIN 35 rail
Wire connection	CAGE CLAMP®	CAGE CLAMP®
Cross sections	0.08 ... 2.5 mm² / 28 ... 14 AWG	0.08 ... 2.5 mm² / 28 ... 14 AWG
Stripped lengths	5 ... 6 mm / 0.2 ... 0.24 in.	5 ... 6 mm / 0.2 ... 0.24 in.

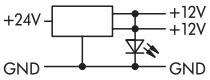
	DC/DC converter 12 V / 24 V, 250 mADC	DC/DC converter 24 V / 12 V, 0.5 ADC











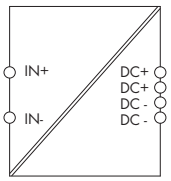
Description	V_N / V_O	Item No.	Pack. Unit	V_N / V_O	Item No.	Pack. Unit
DC/DC converter, for DIN 35 rail	12 VDC / 24 VDC ± 1 %	**859-804**	1	24 VDC / 12 VDC ± 2 %	**859-805**	1

Technical Data

Nominal input voltage (V_N)	12 VDC	24 VDC
Input voltage range	8 … 16 VDC	15 … 30 VDC
Output voltage	24 VDC ± 1 %	12 VDC ± 2 %
Output current (max.)	250 mA	500 mA
Line regulation, max. (full load, over input voltage range)	0.5 %	0.5 %
Max. load regulation (no load to full load, nominal input	0.5 %	0.7 %
Efficiency at full load (24 VDC in)	83 %	85 %
Output noise peak-to-peak max. (20 MHz bandwidth)	40 mV	20 mV
Switching frequency	1.2 MHz (nominal)	200 kHz (nominal)
Isolation	Non-isolated	Non-isolated
Reverse voltage protection, input	Yes	Yes
Minimum load requirement	No	No
Max. transient recovery time (recovery time for load change from 25 % to 75% of full load)	50 µs	500 µs
Max. startup time (24 VDC in, full load)	8 ms	3 ms
Max. hold time (nominal input voltage, full load)	500 µs	500 µs
Input fuse	TVS diode	TVS diode
Output short circuit protection	Fuse	Temporary (short-circuit of the output for 1 minute without damage to the device)
Temperature coefficient	100 ppm/°C	100 ppm/°C
Ambient operating temperature	-25 °C … +55 °C	-25 °C … +55 °C
Dimensions (mm) W x H x L	6 x 56 x 91	6 x 56 x 91
	Height from upper-edge of DIN 35 rail	Height from upper-edge of DIN 35 rail
Wire connection	CAGE CLAMP®	CAGE CLAMP®
Cross sections	0.08 … 2.5 mm² / 28 … 14 AWG	0.08 … 2.5 mm² / 28 … 14 AWG
Stripped lengths	5 … 6 mm / 0.2 … 0.24 in.	5 … 6 mm / 0.2 … 0.24 in.

DC/DC Converter

***EPSITRON*® COMPACT Power**



- Primary switch mode power supply unit
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
DC/DC Converter, 110 VDC / 24 VDC; 2.0 A	**787-1014**	1

Technical Data

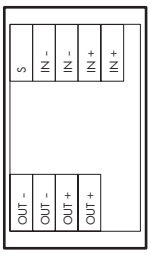
Input:	
Nominal input voltage $V_{i\,nom}$	110 VDC
Input voltage range	77 V ... 140 VDC
Frequency	0 Hz
Input current I_i	0.77 A at 77 VDC /
	0.42 A at 140 VDC
Inrush current	< 30 A, NTC
Mains failure hold-up time	> 8 ms at 77 VDC /
	> 25 ms at 140 VDC
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC (SELV)
Output current I_o	2.0 A at 24 VDC
	max. 1.6 A in any mounting position
Factory preset	24 VDC
Adjustment accuracy	10 %
Residual ripple	< 100 mV (peak-to-peak) at 20 MHz
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	LED green (V_o)
Efficiency/Power losses:	
Efficiency	85 % typ.
Power loss P_V	1.9 W (110 VDC/no load),
	9.9 W (110 VDC/nominal load)
Max. power loss P_V	9.9 W typ. (77 VDC / 24 VDC, 2 A)
Fuse protection:	
Internal fuse	T 4 A / 125 VDC
External fuse	6 A, 10 A power circuit breakers,
	B, C characteristics
Environmental requirements:	
Ambient operating temperature	-40 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Rel. humidity	5 % ... 96 % (varnished PCB)
Derating	-1.5 %/K (> 55 °C)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)
Shock and vibration	Category 1, class B
	(acc. to EN 61373:2010)

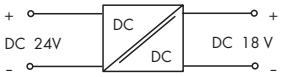
Technical Data

Safety and protection:	
Enclosure	Plastic, light gray,
	Flammability class V0 acc. to UL94
Test voltage pri. - sec.	4.2 kV DC
Protection class	II
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage category	II
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 40 VDC (output side in case of an error)
Short circuit protection	Yes
No-load proof	Yes
Feedback voltage	Max. 35 VDC
Parallel operation	Yes
Series connection	Yes
MTBF	> 500000 h
Fire load	7 MJ
Connection and type of mounting:	
Wire connection	Input/Output: WAGO 740 Series
Cross sections	Input/Output:
	0.08 mm² ... 2.5 mm² / 28 ... 12 AWG
Strip lengths	Input/Output:
	6 ... 7 mm / 0.24 ... 0.28 in.
Type of mounting	DIN-rail mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	72 x 89 x 59
	Length: 55 mm, from upper-edge of DIN-rail
Weight	250 g
Standards and approvals:	
Standards/specifications	EN 60950, EN 61204-3, EN 50121-3-2,
	EN 50125*, UL 60950*, UL 508*, GL*
	(*pending)

Rail-Mounted Modules - DC/DC Converter

	24 V / 18 V; 0.4 A DC **Mounting carrier for DIN 35 rail**	





Description	Item No.	Pack. Unit	
DC/DC converter	**288-895**	5 (1)	

Technical Data

Input voltage	24 V DC	
Input voltage range	18 V ... 36 V DC	
Output voltage	18 V DC (± 1 %)	
Nominal output current	400 mA	
Efficiency	82 %	
Test voltage input/output	DC 1500 V	
Short circuit protection	Permanent	
Storage temperature	-40 °C ... +80 °C	
Ambient operating temperature	-25°C ... +70°C	
Weight	75.9 g	
Dimensions (mm) W x H x L	50 x 25 x 85	
	Height from upper-edge of DIN 35 rail	
Wire connection	CAGE CLAMP® (256 Series)	
Cross sections	0.08 ... 2.5 mm² / 28 ... 12 AWG	
	(THHN, THWN)	
Stripped lengths	5 ... 6 mm / 0.2 ... 0.24 in.	
EMC 1-Immunity to interference	Acc. to EN 50082-2 (1996) * * Only in conjunction with	
	DALI/DSI Master Module 750-641	
EMC 1-Emission of interference	Acc. to EN 50081-1 (1993) * * Only in conjunction with	
	DALI/DSI Master Module 750-641	
Accessories		
WMB Multi marking system for mounting carrier	see page 506	
Marker strips for mounting carrier	white 709-198 / translucent 709-196	