

Product Details and Certifications

Cross Reference RA Part Number: 1606-XLSRED A



Product: **1606-XLSRED**

Description: Redundancy Module, Vin 1 -.9Vin, 480 W,
10-60V DC Input Voltage



Representative Photo Only (actual product may vary based on configuration sections)

POWER SUPPLY DATA

Bulletin Number	1606 Switched Mode Power Supplies
Input Voltage	10...60V DC
Output Voltage	Vin -0.9V Typ.
Rated Output Watts	480 W
Operational Range	10...60V DC
Rated Input Current	Single Input: 20 A Max. / Dual Input: 20 A Max. Total
Special Features	Redundancy for DC 10...60V applications; Class 1 Div. 2 / N+1 Redundancy
Rated Output Current	0...20 A

CERTIFICATIONS AND APPROVALS

UL
CE
IEC/EN
EMC

For UL Certifications Directory:

<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>



Bulletin	1606-XLP	1606-XL	1606-XLS	1609	1497
Type	Switched Mode Power Supply Single Phase	Switched Mode Power Supply Single/Three Phase	Switched Mode Power Supply Single/Three Phase	Uninterruptible Power Supply	Control Circuit Transformer
Features	<ul style="list-style-type: none"> Low inrush current Wide range input; auto select input Superior overload design (continuous current, no hiccup) NEC Class 2 "Limited Power" Superior efficiency and temperature rating 	<ul style="list-style-type: none"> Low inrush current PFC Choke Wide range input; auto select input Superior overload design (continuous current, no hiccup) NEC Class 2 "Limited Power" Selectable operating mode (single/parallel) Superior efficiency and temperature rating Output signals 	<ul style="list-style-type: none"> Ultra-small size Extra-low inrush current Active Power Factor Correction Wide range AC/DC input; auto select input Superior reserve power (can support 150% rated power for 3...5 seconds) Superior efficiency and temperature rating DC OK and Overload LED 	<ul style="list-style-type: none"> Rugged industrial design DIN Rail or Back of Panel mountable Elevated temperature performance (up to 50°C) Comprehensive network management Remote monitoring/configuration "Dry contact" I/O Line interactive Pure sine wave output 	<ul style="list-style-type: none"> Wide VA range Enclosed construction 63...350 VA Terminal covers finger safe Optional fuse covers available Dual primary and secondary fuse block available to 500 VA Class B insulation (130°C) All welded construction
Output Power (Watts/VA)	25...100 W	60...960 W	80...480 W	325 W/500 VA	63...2000 VA
Input Voltage / Primary Voltage	85...264V AC 85...375V DC	85...132/176...264/340...576V AC 160...375/450...820V DC	85...276/323...552V AC 88...375/450...780V DC	120, 208/230V AC	208...600V
Efficiency	80...90%	87...93%	91.6...95%	96%	—
Output Voltage / Secondary Voltage	5, 10...12, 15, 24, 48V DC	24, 36, 48V DC	24V DC	120, 208/230V AC	24...120V Multi-tap 115...230V (50 Hz)
Rated Output Current	1.3...4.2 A	2.5...40 A	3.4...20 A	4.2 A	—
Operating Temperature Range (Tamb)	-10...+70°C >60°C with derating	-10...+70°C >60°C with derating	-25...+70°C >60°C with derating	0...50°C	—
Non-Operating Temperature Range	-40...+85°C			-20...+60°C	—
Insulation	—	—	—	—	Class B 130°C
Certifications	cULs, CE	cULs, CE	cULs, CE	UL, CSA, CE	cULs, CE
Standards	EN 50081-1, EN 61000-6-2, EN 61000-3-2 (A14) UL 508 UL 1950	EN 55011 (Class B), EN 55022 (Class B), EN 61000-6-2, EN 61000-3-2 (A14), EN 50081-1 UL 508 UL 1950	EN 55011 (Class B), EN 55022 (Class B), EN 61000-6-2, EN 61000-3-2 (A14), EN 50081-1 UL 508 UL 1950	EN 50091-1-1, EN 50091-2 (Class 2) UL 1778	EN 60529
Special Application Products	<ul style="list-style-type: none"> Compact Redundancy Module for 10...60V DC 50 W Device with Removable Terminal Blocks Buffer Module for Extended Ride-Through Redundant Power Supplies Redundancy Modules 				
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Switched Mode Power Supplies

Product Overview/Product Sizing



Bulletin 1606 — Power Supplies ❄️

- Quick mounting and connecting, innovative DIN-Rail mount, smallest in class
- Low inrush current limiting
- PFC Active or Passive
- Wide range input; auto select input
- Superior overload design (continuous current, no hiccup)
- NEC Class 2 'Limited Power' options
- Selectable operating mode (single/parallel)
- Superior efficiency and temperature rating

Special Modules

- Brownout buffer, DC to DC converter, N+1 redundancy

Standards Compliance

- World-wide Certifications‡
- NEC Class 2
- Class 1 Div. 2 (T3A)
- cULus, CE, C-Tick
- SEMI F47 Compatible
- ABS/GL/RINA (Marine)

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Certifications



* Not all features apply to all power supplies; see individual power supply descriptions for specifics

❄️ A more detailed list of performance specifications can be found at the Allen-Bradley web site

http://www.ab.com/industrialcontrols/products/power_supplies/index.html

‡ Dual UL rating with cURus 60950 relating to certified use in information technology.

How to Select a Bulletin 1606 Power Supply

The Bulletin 1606 line of Power Supplies is designed with "reserve power" thereby eliminating the need to oversize your power supply to start high inrush loads.

Steps to size a Power Supply

1. Determine the "Average" continuous current of the load and the typical inrush current.
2. Select a power supply where the rated load is at/or below the current of the device and the Peak Current is less than the short-circuit rating of the power supply.

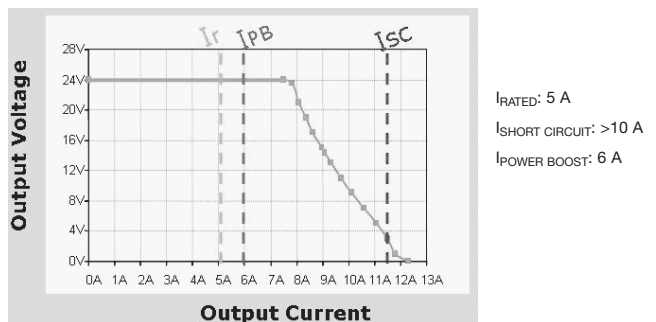
Notes:

- PowerBoost will deliver up to 25% additional current continuously at 40 deg C or less.
- ReservePower will deliver 150% of rated current for up to 4 sec.

Example:

Application: Single Phase 120V input, 24V output, 6 A continuous current @ 35 °C, with 9 A inrush current **Solution:** 1606-XL120D

Output Characteristic for XL120D (5 A) Power Supply



Cat. No.	I_{RATED}	$I_{SHORT\ CIRCUIT\ (25^{\circ}C)}$	$I_{POWER\ BOOST\ OF\ I_{RESERVEPOWER}}$
1606-XLS80E	3.4 A	5.2 A	5.4 A§
1606-XLS120E	5.0 A	9.0 A	7.5 A§
1606-XLS240E	10 A	21 A	15 A§
1606-XLS480E-3	20 A	29 A	30 A§
1606-XLSDNET4	3.8 A	4.0 A	—
1606-XLSDNET8	8.0 A	7.0 A	—
1606-XLP25A	5.0 A	5.0 A	—
1606-XLP30B	3.0 A	4.0 A	—
1606-XLP30E	1.3 A	1.9 A	—
1606-XLP36C	2.8 A	2.0 A	—
1606-XLP50B	4.2 A	4.3 A	—
1606-XLP50E	2.1 A	3.1 A	—
1606-XLP50EZ	2.1 A	3.1 A	—
1606-XLP50F	1.0 A	1.7 A	—
1606-XLP72E	3.0 A	4.5 A	—
1606-XLP90B	8.0 A	8.0 A	—
1606-XLP95E	3.9 A	7.0 A	—
1606-XLP100E	4.2 A	7.1 A	—
1606-XLP100F	2.1 A	3.6 A	—
1606-XL60D	2.5 A	4.5 A*	—
1606-XL120D	5.0 A	10 A*	6.0 A
1606-XL180B	15 A	21 A*	—

Cat. No.	I_{RATED}	$I_{SHORT\ CIRCUIT\ (25^{\circ}C)}$	$I_{POWER\ BOOST\ OF\ I_{RESERVEPOWER}}$
1606-XL240E	10 A	18 A*	12 A
1606-XL240EP	10 A	18 A*	12 A
1606-XL240FP	5.0 A	10 A*	6.0 A
1606-XL480E	20 A	N/A>	25 A
1606-XL480EP	20 A	22 A	25 A
1606-XL480EPT	20 A	22 A	25 A
1606-XL480GP	13.3 A	12 A	16.6 A
1606-XL480F	10 A	24 A	12.5 A
1606-XL120E-3	5.0 A	11 A*	6.0 A
1606-XL240E-3	10 A	22 A*	12 A
1606-XL480E-3	20 A	N/A>	25 A
1606-XL480E-3W	20 A	25 A	25 A
1606-XL480F-3H	10 A	N/A>	12.5 A
1606-XL720E-3	30 A	N/A>	33 A
1606-XL960E-3	40 A	44 A	45 A
1606-XL960E-3S	40 A	44 A	45 A
1606-XLDNET4	4.0 A	3.8 A*	—
1606-XLDNET8	8.0 A	6.0 A*	—
1606-XL60DR	2.5 A	4.5 A*	—
1606-XL120DR	5.0 A	10 A*	6.0 A
1606-XL240DR	10 A	18 A*	12 A

§ Products with ReservePower.

* Short circuit current values are temperature dependent for the selected product; i.e., the higher the ambient temperature, the lower the short circuit current.

> Hiccup Overload design.

Bulletin 1606-(number from table) % Power Supply Quick Guide

	30...40 W	50 W	60 W	72...80 W	90...100 W	120 W	180 W	240 W	480 W	960 W
5...5.5V	XLP25A	—	—	—	—	—	—	—	—	—
10...12V	XLP30B	—	—	—	—	—	—	—	—	—
12...15V	—	XLP50B	—	—	XLP90B	—	XL180B	—	—	—
(+/-)12 and 15V	XLP36C	—	—	—	—	—	—	—	—	—
24...28V 1-Ph	XLP30E	XLP50E XLP50EZ	XL60D	XLP72E XLS80E	XLP95E XLP100E	XLS120E XL120D	—	XLS240E XL240E XL240EP	XL480E XL480EP XL480EPT	—
24...28V 3-Ph	—	—	—	—	—	XL120E-3	—	XL240E-3	XLS480E-3 XL480E-3 XL480E-3W XL480F-3H	XL720E-3
36...43V	—	—	—	—	—	—	—	—	XL480GP	—
48...56V	—	XLP50F	—	—	XLP100F	—	—	XL240FP	XL480F	—
24V Redundant	—	—	XL60DR	—	—	XL120DR	—	XL240DR XLPRED	XLSRED XLRED20-30	XLRED20-30
DeviceNet	—	—	—	—	XLSDNET4 XLDNET4	—	—	XLSDNET8 XLDNET8	—	—

% Example: For a 24...28 Volt, 3-Phase, 120 Watt power supply, the Catalog Number would be 1606-XL120E-3.

Special Applications

Meets NEC Class 2

- 1606-XLP25A
- 1606-XLP30B
- 1606-XLP30E
- 1606-XLP36C
- 1606-XLP50B
- 1606-XLP50E
- 1606-XLP50EZ
- 1606-XLP50F
- 1606-XLP72E
- 1606-XLP90B
- 1606-XLP95E
- 1606-XL60D
- 1606-XLDNET4
- 1606-XL60DR
- 1606-XLSDNET4

Meets ABS/GL/RINA (Marine)

- 1606-XLP25A
- 1606-XLP30E
- 1606-XLP36C
- 1606-XLP50E
- 1606-XLP50EZ
- 1606-XLP72E
- 1606-XLP90B
- 1606-XLP100E
- 1606-XLP100F
- 1606-XLPRED

Meets Hazardous Location Rating, Class 1 Div. 2

- 1606-XLS80E
- 1606-XLS120E
- 1606-XLS240E
- 1606-XLS480E-3
- 1606-XLSDNET4
- 1606-XLSDNET8
- 1606-XLSRED
- 1606-XLP25A
- 1606-XLP30B
- 1606-XLP30E
- 1606-XLP50B
- 1606-XLP50E
- 1606-XLP50EZ
- 1606-XLP72E
- 1606-XLP90B
- 1606-XLP95E
- 1606-XLP100E
- 1606-XLPRED
- 1606-XL240E
- 1606-XL240EP

Meets Semiconductor F47 Sag Immunity Requirements

Product	Input Mains Voltage	Output Current Range
• 1606-XLS80E	Full Range	Full Range
• 1606-XLS120E	Full Range	Full Range
• 1606-XLS240E	Full Range	Full Range
• 1606-XLS480E-3	Full Range	Full Range
• 1606-XLSDNET4	Full Range	Full Range
• 1606-XLSDNET8	Full Range	Full Range
• 1606-XLP30E	AC 200V or higher	Full Range up to 1.3 A
• 1606-XLP50E	AC 200V or higher	Full Range up to 2.1 A
• 1606-XLP100E	AC 200V or higher	Full Range up to 4.2 A
• 1606-XL60D	AC 120V or higher	Full Range up to 2.5 A
• 1606-XL120D	AC 120V or higher	Full Range up to 5 A
• 1606-XLDNET4	AC 120V or higher	Up to 3 A
• 1606-XL480E	AC 200V or higher	Full Range up to 20 A

Meets ODVA Requirements

- 1606-XLSDNET4
- 1606-XLSDNET8

1606 Special Modules

Input Voltage	Output Power [W]	Output Voltage	Output Current [A]	Input Circuit Protection	Steady State Input Current 120/230 [V AC]	Parallel Operation	DC OK Relay	Cat. No.
18...36V DC	40	5.1	8	N/A	N/A	Yes	—	1606-XLDC40A
14...32.4V DC	92	24	3.8	N/A	N/A	—	—	1606-XLDC92D
100...240V AC, 110...300V DC	91	24	3.8	6 A SLOW BLOW FUSE OR 1489-A1C060/20 A*	1.02/0.48	Yes	✓	1606-XLSDNET4
100...240V AC, 110...300V DC	192	24	8	6 A SLOW BLOW FUSE OR 1489-A1C060/20 A*	2.13/1.00	Yes	✓	1606-XLSDNET8
100...120/200...240V AC	80	24...28	3.3	10 A SLOW BLOW FUSE OR 1489-A1C100/20 A*	1.50/0.68	No	—	1606-XLEDNET3
100...120/200...240V AC, 160...375V DC	60	24	2.5	10 A SLOW BLOW FUSE OR 1489-A1C100/16 A*	1.30/0.70	Yes‡	✓	1606-XL60DR
100...120/200...240V AC, 210...375V DC	120		5	10 A SLOW BLOW FUSE OR 1489-A1C100/16 A*	2.60/1.40	Yes‡	✓	1606-XL120DR
100...120/200...240V AC, 240...375V DC	240		10	10 A SLOW BLOW FUSE OR 1489-A1C100/10 A*	6.00/2.60	Yes‡	✓	1606-XL240DR
24V DC	720	V _{in} -5V typ	30	N/A	N/A*	—	—	1606-XLRED20-30
24V DC	960	V _{in} -6V typ	40	N/A	N/A§	—	—	1606-XLRED40
10...60V DC	384	V _{in} 1 -.9V typ	16>	N/A	N/A	—	—	1606-XLPRED
10...60V DC	480	V _{in} 1 -.9V typ	20>	N/A	N/A	—	—	1606-XLSRED
24...28	960	V _{in} 2.15 typ.	40	N/A	N/A	—	—	1606-XLSRED40
24...28	1920	V _{in} 2.7 typ.	80	N/A	N/A	—	—	1606-XLSRED80
24...60V DC	480	V _{in} 1 -.9V typ	20>	N/A	N/A	—	✓	1606-XLERED

1606 Special Modules with UPS

Input Voltage	Output Power [W]	Output Voltage	Output Current [A]	Cat. No.
22.5...30V DC	240	22.5	10	⌘ 1606-XLS240-UPS
22.5...30V DC	240	22.5	10	1606-XLS240-UPSC
22.5...30V DC	240	12/22.5	5/10	1606-XLS240-UPSD
22.5...30V DC	240	22.5	10	1606-XLS240-UPSE
24...28.8V DC	480	22.5...27.8	20	1606-XLSBUFFER24
48...56V DC	960	45...54	10	1606-XLSBUFFER48

Bulletin 1606 Special Module Accessories

Description	Cat. No.
7 Ah/12V Battery Assembly with Bracket, for use with DC UPS	1606-XLSBATASSY1
7 Ah/12V Battery	1606-XLSBAT1
Battery bracket for 7 Ah/12V battery	1606-XLSBATBR1
26 Ah/12V Battery Assembly with Bracket, for use with DC UPS	1606-XLSBATASSY2
26 Ah/12V Battery	1606-XLSBAT2
Battery bracket for 26 Ah/12V battery	1606-XLSBATBR2

* To be used alongside 20, 30, and 40 A power supplies.

‡ Single/parallel operation (inclined characteristic) selectable (jumper).

§ To be used alongside 40 A power supplies (or smaller).

* Unit has internal (not accessible/replaceable) input fuse. Additional protection is not required if used on branch circuits ≤ UL test levels.

> See product specifications for proper use.

⌘ **Cat. No. 1606-XLS240-UPS** is a charging module, used along side a power supply and a battery assembly. **The battery assembly must be ordered separately.** Order **Cat. No. 1606-XLSBATASSY1** for 7 Ah/ 12V battery assembly or **Cat No. 1606-XLSBATASSY2** for 26 Ah/ 12V battery assembly. Consult local codes and regulations for installation.

Switched Mode Power Supplies

Approximate Dimensions

Approximate Dimensions and Wire Size

Approximate dimensions are shown in inches (mm) unless otherwise indicated. Dimensions are not to be used for manufacturing purposes.

Bulletin 1606 Dimensions Table

Catalog Number	W	H	D*	Wire Size* (Input and Output unless otherwise noted)			
1606-XLS80E	1.26 in (32 mm)	4.88 in (124 mm)	4.02 in (102 mm)	Input* Stranded 20...10 AWG (0.5...4 mm ²) Solid 20...10 AWG (0.5...6 mm ²) Output* Stranded 28...12 AWG (0.3...2.5 mm ²) Solid 28...12 AWG (0.3...4 mm ²)			
1606-XLS120E	1.57 in (40 mm)	4.88 in (124 mm)	4.61 in (117 mm)				
1606-XLSDNET4							
1606-XLS240E	2.36 in (60 mm)	4.88 in (124 mm)	4.61 in (117 mm)	Input/Output* Stranded 20...10 AWG (0.5...4 mm ²) Solid 20...10 AWG (0.5...6 mm ²)			
1606-XLS480E-3	2.56 in (65 mm)	4.88 in (124 mm)	5.00 in (127 mm)				
1606-XLSDNET8	2.36 in (60 mm)	4.88 in (124 mm)	4.61 in (117 mm)	Input/Output* Stranded 20...10 AWG (0.5...4 mm ²) Solid 20...10 AWG (0.5...6 mm ²)			
1606-XLSRED	1.26 in (32 mm)	4.88 in (124 mm)	4.02 in (102 mm)				
1606-XLP25A	1.77 in (45 mm)	2.95 in (75 mm)	3.58 in (91 mm)	Input/Output* Stranded 28...12 AWG (0.3...2.5 mm ²) Solid 28...12 AWG (0.3...4 mm ²)			
1606-XLP30B							
1606-XLP30E							
1606-XLP36C							
1606-XLP50B							
1606-XLP50E							
1606-XLP50EZ							
1606-XLP50F							
1606-XLP72E							
1606-XLPRED							
1606-XLP95E							
1606-XLP100E					2.87 in (73 mm)	2.95 in (75 mm)	4.06 in (103 mm)
1606-XLP100F							
1606-XLP90B	1.93 in (49 mm)	4.88 in (124 mm)	4.02 in (102 mm)	Input/Output* Stranded 20...10 AWG (0.5...4 mm ²) Solid 20...10 AWG (0.5...6 mm ²)			
1606-XL60D							
1606-XL120D							
1606-XL180B							
1606-XL240E					4.72 in (120 mm)	4.88 in (124 mm)	4.02 in (102 mm)
1606-XL240EP							
1606-XL240FP					8.6 in (220 mm)	4.88 in (124 mm)	4.02 in (102 mm)
1606-XL480E							
1606-XL480EP							
1606-XL480EPT							
1606-XL480GP							
1606-XL480F							
1606-XL120E-3	2.87 in (73 mm)	4.88 in (124 mm)	4.61 in (117 mm)	Input/Output* Stranded 20...10 AWG (0.5...4 mm ²) Solid 20...10 AWG (0.5...6 mm ²)			
1606-XL240E-3	3.50 in (89 mm)	4.88 in (124 mm)	4.61 in (117 mm)				
1606-XL480E-3	8.66 in (220 mm)	4.88 in (124 mm)	4.02 in (102 mm)				
1606-XL480E-3W	5.91 in (150 mm)	4.88 in (124 mm)	4.76 in (121 mm)				
1606-XL480F-3H	8.66 in (220 mm)	4.88 in (124 mm)	4.02 in (102 mm)				
1606-XL720E-3	9.45 in (240 mm)	4.88 in (124 mm)	4.41 in (112 mm)				
1606-XL960E-3	10.83 in (275 mm)	4.88 in (124 mm)	4.61 in (117 mm)	Input* Stranded 20...10 AWG (0.5...4 mm ²) Solid 20...10 AWG (0.5...6 mm ²)			
1606-XL960E-3S				Output* Stranded 22...8 AWG (0.5...10 mm ²) Solid 22...8 AWG (0.5...16 mm ²)			
1606-XLBUFFER	2.56 in (65 mm)	4.88 in (124 mm)	4.02 in (102 mm)	Input/Output* Stranded 20...10 AWG (0.5...4 mm ²) Solid 20...10 AWG (0.5...6 mm ²)			
1606-XLDC40A	1.93 in (49 mm)	4.88 in (124 mm)	4.02 in (102 mm)				
1606-XLDNET4	2.56 in (65 mm)	4.88 in (124 mm)	4.02 in (102 mm)	Input/Output* Stranded 22...10 AWG (0.2...2.5 mm ²) Solid 22...10 AWG (0.2...2.5 mm ²)			
1606-XLDNET8	4.72 in (120 mm)	4.88 in (124 mm)	4.02 in (102 mm)				
1606-XLP50EZ	1.77 in (45 mm)	2.95 in (75 mm)	3.58 in (91 mm)	Input/Output* Stranded 22...12 AWG (0.2...2.5 mm ²) Solid 22...12 AWG (0.2...2.5 mm ²)			
1606-XL60DR	1.93 in (49 mm)	4.88 in (124 mm)	4.02 in (102 mm)				
1606-XL120DR	2.56 in (64 mm)	4.88 in (124 mm)	4.02 in (102 mm)				
1606-XL240DR	4.72 in (120 mm)	4.88 in (124 mm)	4.02 in (102 mm)				
1606-XLRED20-30	1.89 in (48 mm)	4.88 in (124 mm)	4.02 in (102 mm)	Input/Output* Stranded 20...10 AWG (0.5...4 mm ²) Solid 20...10 AWG (0.5...6 mm ²)			
1606-XLRED40	1.89 in (48 mm)	4.88 in (124 mm)	4.61 in (117 mm)				



* Depth measurement does not include DIN rail.

⊗ The wire sizes indicated refer only to the connection capability of the terminal.

For proper operation, the correct wire size must be used (based on accurate determination of the electrical characteristics and loading of the system).



Bulletin 1606 Redundancy Module

	N+1 Redundancy	N+1 Redundancy	N+1 Redundancy	N+1 Redundancy	N+1 Redundancy	N+1 Redundancy	
	1606-XLRED20-30	1606-XLRED40	1606-XLPRED	1606-XLSRED	1606-XLERED	1606-XLSRED40	
Output Volts/Watts	30 A Dual redundancy module	40 A Single redundancy module	8 A Dual redundancy	10 A Dual redundancy		20 A Dual redundancy	40 A Dual redundancy
Input Voltage (47...63 Hz)	DC 24V (max. 35V)		DC 10...60V	DC 10...60V		24...28 V DC	24...28 V DC
Operational Range	18...36 V DC		10...60V DC	10...60V DC		24...28 V DC	24...28 V DC
Rated Input Current	20...30 A (max. 35 A)	0...40 A (max. 50 A)	Single input: 8 A max. Dual input: 16 A max. total	Single input: 10 A max. Dual input: 20 A max. total		Single input: 20 A max. Dual input: 40 A max. total	Single input: 40 A max. Dual input: 80 A max. total
Output Voltage	Vin -0.5V typ.	Vin -0.6V typ.	Vin -0.9V typ.	Vin -0.9V typ.		Vin -2.15V typ.	Vin -2.7V typ.
Rated Output Current	20...30 A (max. 35 A)	0...40 A (max. 50 A)	0...10 A	0...20 A		0...40 A	0...80 A
Operating Temperature Range (T_{amb})	-10 °C...+70 °C		-40 °C...+70 °C >60 °C with derating	-25 °C...+70 °C >60 °C with derating		-25 °C...+70 °C >60 °C with derating	-25 °C...+70 °C >60 °C with derating
Dimensions (W x H x D)	48 x 124 x 102 mm	48 x 124 x 117 mm	45 x 75 x 91 mm	32 x 124 x 102 mm	32 x 124 x 117 mm	36 x 124 x 127 mm	46 x 124 x 127 mm
Weight	625 g	646 g	136 g	290 g	350 g	340 g	440 g
Certifications/Standards*	1, 2, 3, 6		1, 2, 3, 6	1, 2, 3, 6		1, 2, 3, 6	1, 2, 3, 6
Special Features	Dual redundancy module for 2x35 A; N+1 redundancy	Single redundancy module for 2.5-50 A; N+1 redundancy	Redundancy for DC 10...60V applications; ABS/GL/RINA (Marine); Class 1 Div. 2	Redundancy for DC 10...60V applications; Class 1 Div. 2	Redundancy for DC 10...60V applications; Class 1 Div. 2; DC OK	Redundancy for DC 24...28V applications; Class 1 Div. 2	Redundancy for DC 24...28V applications; Class 1 Div. 2

* 1) = CE, 2) = UL 508 (cULus LISTED), 3) = UL 1950 (cURus), 4) = CSA C22.2, No. 60950, 5) Safety standards = IEC/EN 60950, EN 50178, 6) EMC standards = EN 55011 (Class B), EN 55022 (Class B), EN 61000-6-2, 7) EMC standards = EN 61000-3-2 (A14), EN 50081-1
 † MTBF determined by Siemens norm SN 29500 at full load current and 40 °C