

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-XLRED

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.

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	1606-XLSRED80
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