



Certificate of Compliance

Certificate: 70058584

Master Contract: 266043

Project: 70058584

Date Issued: 2016-01-11

Issued to: XP Power LLC
15641 RED HILL AVE SUITE 100
SUITE 100 TUSTIN, CA 92780
CSA

Attention: Mr. Chin Chee Siang

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by:

Neil Lin

PRODUCTS

CLASS 5311 11 – POWER SUPPLIES - Component Type (For Canadian Certification)

CLASS 5311 91 – POWER SUPPLIES - Component Type (For US Certification)

Component Type DC/DC Converter, see below for details of models and ratings:

The following models comply with: ANSI/UL Std No 60950-1, 2nd Ed. Incl. AM1 (2011) and CAN/CSA-C22.2 No 60950-1-07, 2nd Ed. Incl. AM1 (2011)

JWK10 Series, ISC03 Series, ISX06 Series:

Model	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
JWK10 Series				
JWK1024S3V3		400	3,3	2200
JWK1024S3V3-HK		400	3,3	2200
JWK1024S05		500	5,0	2000

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JWK1024S05-HK	nominal: 24 Vdc range: 9 – 36 Vdc	500	5,0	2000
JWK1024S5V1		500	5,1	2000
JWK1024S5V1-HK		500	5,1	2000
JWK1024S12		500	12	830
JWK1024S12-HK		500	12	830
JWK1024S15		500	15	660
JWK1024S15-HK		500	15	660
JWK1024S24		500	24	410
JWK1024S24-HK		500	24	410
JWK1024D05		500	±5	±1000
JWK1024D05-HK		500	±5	±1000
JWK1024D12		500	±12	±410
JWK1024D12-HK		500	±12	±410
JWK1024D15		500	±15	±330
JWK1024D15-HK		500	±15	±330
JWK1048S3V3	nominal: 48 Vdc range: 18 – 75 Vdc	200	3,3	2200
JWK1048S3V3-HK		200	3,3	2200
JWK1048S05		250	5,0	2000
JWK1048S05-HK		250	5,0	2000
JWK1048S5V1		250	5,1	2000
JWK1048S5V1-HK		250	5,1	2000
JWK1048S12		250	12	830
JWK1048S12-HK		250	12	830
JWK1048S15		250	15	660
JWK1048S15-HK		250	15	660
JWK1048S24		250	24	410
JWK1048S24-HK		250	24	410
JWK1048D05		250	±5	±1000
JWK1048D05-HK		250	±5	±1000
JWK1048D12		250	±12	±410
JWK1048D12-HK		250	±12	±410
JWK1048D15		250	±15	±330
JWK1048D15-HK	250	±15	±330	
ISC03 Series				
ISC0324S3V3	nominal: 24 Vdc range: 9 – 36 Vdc	110	3,3	600
ISC0324S05		160	5,0	600
ISC0324S12		160	12	250
ISC0324S15		160	15	200
ISC0324S24		160	24	125
ISC0324D05		160	±5	±300
ISC0324D12		160	±12	±125
ISC0324D15		160	±15	±100

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ISC0348S3V3	nominal: 48 Vdc range: 18 – 75 Vdc	55	3,3	600
ISC0348S05		80	5,0	600
ISC0348S12		80	12	250
ISC0348S15		80	15	200
ISC0348S24		80	24	125
ISC0348D05		80	±5	±300
ISC0348D12		80	±12	±125
ISC0348D15		80	±15	±100
ISX06 Series				
ISX0624S3V3	nominal: 24 Vdc range: 9 – 36 Vdc	260	3,3	1450
ISX0624S05		300	5,0	1200
ISX0624S12		300	12	500
ISX0624S15		300	15	400
ISX0624S24		300	24	250
ISX0624D05		300	±5	±600
ISX0624D12		300	±12	±250
ISX0624D15		300	±15	±200
ISX0648S3V3	nominal: 48 Vdc range: 18 – 75 Vdc	130	3,3	1450
ISX0648S05		150	5,0	1200
ISX0648S12		150	12	500
ISX0648S15		150	15	400
ISX0648S24		150	24	250
ISX0648D05		150	±5	±600
ISX0648D12		150	±12	±250
ISX0648D15		150	±15	±200

JWK25 Series:

Model	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
JWK25 Series				
JWK2524S3V3	Nominal: 24Vdc Range: 9- 36Vdc	950	3.3	6000
JWK2524S3V3-HK		950	3.3	6000
JWK2524S05		1170	5.0	5000
JWK2524S05-HK		1170	5.0	5000
JWK2524S12		1175	12.0	2090
JWK2524S12-HK		1175	12.0	2090
JWK2524S15		1160	15.0	1670

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JWK2524S15-HK		1160	15.0	1670
JWK2524D12		1170	±12.0	±1040
JWK2524D12-HK		1170	±12.0	±1040
JWK2524D15		1180	±15.0	±840
JWK2524D15-HK		1180	±15.0	±840
JWK2548S3V3	Nominal: 48Vdc Range: 18- 75Vdc	470	3.3	6000
JWK2548S3V3-HK		470	3.3	6000
JWK2548S05		580	5.0	5000
JWK2548S05-HK		580	5.0	5000
JWK2548S12		580	12.0	2090
JWK2548S12-HK		580	12.0	2090
JWK2548S15		580	15.0	1670
JWK2548S15-HK		580	15.0	1670
JWK2548D12		585	±12.0	±1040
JWK2548D12-HK		585	±12.0	±1040
JWK2548D15		590	±15.0	±840
JWK2548D15-HK		590	±15.0	±840

JSM25 Series, JWL50 Series:

Model	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
JSM25 Series				
JSM2512S3V3 JSM2512S3V3-HK	Nominal: 12Vdc Range: 9- 18Vdc	1900	3.3	6000
JSM2512S05 JSM2512S05-HK		2340	5.0	5000
JSM2512S12 JSM2512S12-HK		2350	12.0	2090
JSM2512S15 JSM2512S15-HK		2350	15.0	1670
JSM2512D12 JSM2512D12-HK		2340	±12.0	±1040
JSM2512D15 JSM2512D15-HK		2360	±15.0	±840
JSM2524S3V3 JSM2524S3V3-HK	Nominal: 24Vdc Range: 18- 36Vdc	940	3.3	6000
JSM2524S05 JSM2524S05-HK		1160	5.0	5000
JSM2524S12 JSM2524S12-HK		1160	12.0	2090

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JSM2524S15 JSM2524S15-HK		1160	15.0	1670
JSM2524D12 JSM2524D12-HK		1170	±12.0	±1040
JSM2524D15 JSM2524D15-HK		1180	±15.0	±840
JSM2548S3V3 JSM2548S3V3-HK	Nominal: 48Vdc Range: 36- 75Vdc	470	3.3	6000
JSM2548S05 JSM2548S05-HK		580	5.0	5000
JSM2548S12 JSM2548S12-HK		580	12.0	2090
JSM2548S15 JSM2548S15-HK		580	15.0	1670
JSM2548D12 JSM2548D12-HK		585	±12.0	±1040
JSM2548D15 JSM2548D15-HK		590	±15.0	±840
JWL50 Series:				
JWL5024S3V3 JWL5024S3V3-HK	Nominal: 24Vdc Range: 9- 36Vdc	1528	3.3	10000
JWL5024S05 JWL5024S05-HK		2290	5.0	10000
JWL5024S12 JWL5024S12-HK		2267	12.0	4170
JWL5024S15 JWL5024S15-HK		2263	15.0	3330
JWL5024S24 JWL5024S24-HK		2286	24.0	2080
JWL5048S3V3 JWL5048S3V3-HK	Nominal: 48Vdc Range: 18- 75Vdc	764	3.3	10000
JWL5048S05 JWL5048S05-HK		1145	5.0	10000
JWL5048S12 JWL5048S12-HK		1134	12.0	4170
JWL5048S15 JWL5048S15-HK		1134	15.0	3330
JWL5048S24 JWL5048S24-HK		1143	24.0	2080

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IEQ05 Series:

Model	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
IEQ05 Series:				
IEQ0512S3V3	Nominal: 12Vdc Range: 4.5-18Vdc	389	3.3	1075
IEQ0512S05		514	5.0	1000
IEQ0512S12		502	12.0	417
IEQ0512S15		503	15.0	334
IEQ0512S24		510	24.0	209
IEQ0512D12		516	±12.0	±209
IEQ0512D15		509	±15.0	±167
IEQ0524S3V3	Nominal: 24Vdc Range: 9-36Vdc	194	3.3	1075
IEQ0524S05		257	5.0	1000
IEQ0524S12		251	12.0	417
IEQ0524S15		249	15.0	334
IEQ0524S24		252	24.0	209
IEQ0524D12		255	±12.0	±209
IEQ0524D15		255	±15.0	±167
IEQ0548S3V3	Nominal: 48Vdc Range: 18-75Vdc	97	3.3	1075
IEQ0548S05		130	5.0	1000
IEQ0548S12		126	12.0	417
IEQ0548S15		124	15.0	334
IEQ0548S24		127	24.0	209
IEQ0548D12		127	±12.0	±209
IEQ0548D15		126	±15.0	±167

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JSK50 Series, JWL40 Series, ISB01 Series:

Model	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
JSK50 Series:				
JSK5012S3V3 JSK5012S3V3-HK	Nominal: 12Vdc Range: 9-18Vdc	3090	3.3	10000
JSK5012S05 JSK5012S05-HK		4630	5.0	10000
JSK5012S12 JSK5012S12-HK		4580	12.0	4170
JSK5012S15 JSK5012S15-HK		4580	15.0	3330
JSK5012S24 JSK5012S24-HK		4570	24.0	2080
JSK5024S3V3 JSK5024S3V3-HK	Nominal: 24Vdc Range: 18-36Vdc	1550	3.3	10000
JSK5024S05 JSK5024S05-HK		2260	5.0	10000
JSK5024S12 JSK5024S12-HK		2260	12.0	4170
JSK5024S15 JSK5024S15-HK		2260	15.0	3330
JSK5024S24 JSK5024S24-HK		2290	24.0	2080
JSK5048S3V3 JSK5048S3V3-HK	Nominal: 48Vdc Range: 36-75Vdc	770	3.3	10000
JSK5048S05 JSK5048S05-HK		1130	5.0	10000
JSK5048S12 JSK5048S12-HK		1130	12.0	4170
JSK5048S15 JSK5048S15-HK		1130	15.0	3330
JSK5048S24 JSK5048S24-HK		1150	24.0	2080
Model	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
JWL40 Series:				
JWL4024S3V3		1240	3.3	8000

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JWL4024S3V3-HK	Nominal: 24Vdc Range: 9- 36Vdc			
JWL4024S05		1850	5.0	8000
JWL4024S05-HK				
JWL4024S12		1870	12.0	3330
JWL4024S12-HK				
JWL4024S15		1870	15.0	2670
JWL4024S15-HK				
JWL4024S24		1835	24.0	1670
JWL4024S24-HK				
JWL4024D12	Nominal: 48Vdc Range: 18- 75Vdc	1890	±12.0	±1670
JWL4024D12-HK				
JWL4024D15		1890	±15.0	±1330
JWL4024D15-HK				
JWL4048S3V3		620	3.3	8000
JWL4048S3V3-HK				
JWL4048S05		930	5.0	8000
JWL4048S05-HK				
JWL4048S12		930	12.0	3330
JWL4048S12-HK				
JWL4048S15		930	15.0	2670
JWL4048S15-HK				
JWL4048S24		918	24.0	1670
JWL4048S24-HK				
JWL4048D12		950	±12.0	±1670
JWL4048D12-HK				
JWL4048D15		950	±15.0	±1330
JWL4048D15-HK				
Model	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
ISB01 Series:				
ISB0105S05	Nominal: 5Vdc Range: 4.5- 9Vdc	256	5.0	200
ISB0105S12		252	12.0	83
ISB0105S15		248	15.0	67
ISB0105D12		255	±12.0	±42
ISB0105D15		248	±15.0	±33
ISB0112S05	Nominal: 12Vdc Range: 9- 18Vdc	105	5.0	200
ISB0112S12		105	12.0	83
ISB0112S15		102	15.0	67
ISB0112D12		104	±12.0	±42
ISB0112D15		103	±15.0	±33
ISB0124S05		53	5.0	200



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ISB0124S12	Nominal:	51	12.0	83
ISB0124S15	24Vdc	51	15.0	67
ISB0124D12	Range: 18-	51	±12.0	±42
ISB0124D15	36Vdc	50	±15.0	±33
ISB0148S05	Nominal:	26	5.0	200
ISB0148S12	48Vdc	26	12.0	83
ISB0148S15	Range: 36-	26	15.0	67
ISB0148D12	75Vdc	26	±12.0	±42
ISB0148D15		25	±15.0	±33

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JSM10, JSM10-R Series:

Model	Input voltage range	Rated input current [mA]	Output voltage [Vdc]	Output current [mA]
JSM10, JSM10-R Series				
JSM1012S3V3, JSM1012S3V3-HK, JSM1012S3V3-R, JSM1012S3V3-RHK	Nominal: 12Vdc Range: 9-18Vdc	838	3.3	2500
JSM1012S05, JSM1012S05-HK, JSM1012S05-R, JSM1012S05-RHK		980	5.0	2000
JSM1012S5V1, JSM1012S5V1-HK, JSM1012S5V1-R, JSM1012S5V1-RHK		1000	5.1	2000
JSM1012S12, JSM1012S12-HK, JSM1012S12-R, JSM1012S12-RHK		954	12.0	830
JSM1012S15, JSM1012S15-HK, JSM1012S15-R, JSM1012S15-RHK		952	15.0	670
JSM1012D05, JSM1012D05-HK, JSM1012D05-R, JSM1012D05-RHK		992	±5.0	±1000
JSM1012D12, JSM1012D12-HK, JSM1012D12-R, JSM1012D12-RHK		956	±12.0	±416
JSM1012D15, JSM1012D15-HK, JSM1012D15-R, JSM1012D15-RHK		957	±15.0	±333

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JSM1024S3V3, JSM1024S3V3-HK, JSM1024S3V3-R, JSM1024S3V3- RHK	Nominal: 24Vdc Range: 18- 36Vdc	414	3.3	2500
JSM1024S05, JSM1024S05-HK, JSM1024S05-R, JSM1024S05-RHK		490	5.0	2000
JSM1024S5V1, JSM1024S5V1-HK, JSM1024S5V1-R, JSM1024S5V1- RHK		500	5.1	2000
JSM1024S12, JSM1024S12-HK, JSM1024S12-R, JSM1024S12-RHK		472	12.0	830
JSM1024S15, JSM1024S15-HK, JSM1024S15-R, JSM1024S15-RHK		471	15.0	670
JSM1024D05, JSM1024D05-HK, JSM1024D05-R, JSM1024D05-RHK		490	±5.0	±1000
JSM1024D12, JSM1024D12-HK, JSM1024D12-R, JSM1024D12-RHK		473	±12.0	±416
JSM1024D15, JSM1024D15-HK, JSM1024D15-R, JSM1024D15-RHK		468	±15.0	±333
JSM1048S3V3, JSM1048S3V3-HK, JSM1048S3V3-R, JSM1048S3V3- RHK	Nominal: 48Vdc Range: 36- 75Vdc	207	3.3	2500
JSM1048S05, JSM1048S05-HK, JSM1048S05-R, JSM1048S05-RHK		242	5.0	2000
JSM1048S5V1, JSM1048S5V1-HK,		250	5.1	2000

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JSM1048S5V1-R, JSM1048S5V1-RHK				
JSM1048S12, JSM1048S12-HK, JSM1048S12-R, JSM1048S12-RHK		233	12.0	830
JSM1048S15, JSM1048S15-HK, JSM1048S15-R, JSM1048S15-RHK		235	15.0	670
JSM1048D05, JSM1048D05-HK, JSM1048D05-R, JSM1048D05-RHK		242	±5.0	±1000
JSM1048D12, JSM1048D12-HK, JSM1048D12-R, JSM1048D12-RHK		239	±12.0	±416
JSM1048D15, JSM1048D15-HK, JSM1048D15-R, JSM1048D15-RHK		237	±15.0	±333

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No 60950-1-07, - Information Technology Equipment - Safety - Part 1: General Requirements
2nd Ed. Incl. AM1 (2011)

ANSI/UL Std No 60950-1, 2nd - Information Technology Equipment - Safety - Part 1: General Requirements
Ed. Incl. AM1 (2011)

CAN/CSA-C22.2 No 60950-1-07, - Information Technology Equipment - Safety - Part 1: General Requirements
2nd Ed. Incl. AM1 (2011)+AM2
(2014)

ANSI/UL Std No 60950-1, 2nd - Information Technology Equipment - Safety - Part 1: General Requirements
Ed. Incl. AM1 (2011)+AM2
(2014)