# Allen-Bradley 1606-XLP72E

## Single Phase Switched Mode Power Supply



$105.00

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# Bulletin 1606-XLE, -XLP, -XLS Switched Mode Power Supplies

Allen-Bradley

Excellent Performance. Superior Efficiency.

## Features and Benefits

**Industry-Leading Efficiency**

- Intelligent circuit design with long-life electrolytic capacitors
- Generates minimal heat
- Allows up to 50% additional power reserve without reducing output voltage, while minimizing ripple and noise

**Wide Power Range and Feature Set**

- Multiple single- and three-phase inputs available for global applications
- Redundancy modules provide a means for managing dual power supplies for back-up power
- Multiple output voltages available

**Compact Size**

- Saves space on plant floor
- Expands plant flexibility

**Approvals**

- CE marked
- cULus and cURus listed




## Overview

Leading the industry in performance and reliability, the Allen-Bradley® Bulletin 1606-XLS, -XLE and -XLP power supplies from Rockwell Automation® meet most worldwide single- and three-phase application requirements. Featuring top of the line efficiency, Bulletin 1606 power supplies help reduce costs and energy consumption. Plus, these compact power supplies are designed and manufactured to accept wide ranges of both AC and DC input voltages and are tested to meet global safety standards.

So, whether you are looking for a standard product covering a broad range of applications or a compact unit to save precious space and costs, there is sure to be an excellent fit for your unique power needs.

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## Bulletin 1606-XLE Essential Switched Mode Power Supplies

Designed with simplicity in mind, the XLE line offers high performing, ultra slim power supplies with the most basic feature set. These products contain the essential features for long service life and high reliability. This line is ideal if you are interested in a cost-effective solution to power your operations.

- Rated outputs between 80…960 W (3.3…40 A at 24V DC)
- Cost-effective solution for single-phase applications

| | Input Voltage | Output Voltage [V DC] | Output Power [W] | Output Current [A] | Steady State Input Current | | | Cat. No. |
|---|---|---|---|---|---|---|---|---|
| | | | | | 120V AC | 230V AC | 400V AC-480V AC | |
| Bulletin 1606-XLE Essential Single Phase ✶ | 100…120/200…240V AC | 24…28 | 80 | 3.3 | 1.50 | 0.68 | | 1606-XLE80E |
| | | 24…28 | 120 | 5 | 2.34 | 1.23 | | 606-XLE120E |
| | | 24…28 | 120 | 5 | 2.34 | 1.23 | | ❄ 1606-XLE120EC |
| | 90…132V AC | 24…28 | 120 | 5 | 1.23 | – | | 1606-XLE120EN |
| | 180…264V AC | 24…28 | 120 | 5 | – | 1.17 | | 1606-XLE120EE |
| | 100…120/200…240V AC | 24…28 | 240 | 10 | 4.34 | 2.23 | | 1606-XLE240E |
| | 90…132V AC | 24…28 | 240 | 10 | 3.73 | – | – | 1606-XLE240EN |
| | 180…264V AC | 24…28 | 240 | 10 | – | 2.20 | | 1606-XLE240EE |
| | 100…120/200…240V AC | 24…28 | 240 | 10 | 4.34 | 2.00 | | 1606-XLE240EP |
| | 100…120/200…240V AC | 48…52 | 240 | 5 | 4.34 | 2.23 | | ♦ 1606-XLE240F |
| | 100…240V AC | 24…28 | 480 | 20 | 4.36 | 2.33 | | 1606-XLE480EP |
| | 100…240V AC | 48…56 | 480 | 10 | 4.36 | 2.33 | | 1606-XLE480FP |
| Three Phase ✶ | 380…480V AC, 600V DC | 12…15 | 96 | 8 | | | 2x 0.56 | 1606-XLE96B-2 |
| | 380…480V AC, 600V DC | 48…56 | 240 | 5 | | | 3x 0.60 | 606-XLE240F-3 |
| | 380…480V AC, 600V DC | 24…28 | 120 | 5 | – | – | 0.68 | 1606-XLE120E-2 |
| | 380…480V AC, 600V DC | 24…28 | 240 | 10 | | | 3x 0.60 | 1606-XLE240E-3 |
| | 480 V AC | 24 | 960 | 40 | | | 3x 1.40 | 1606-XLE960DX-3N |
| | 480 V AC | 48 | 960 | 20 | | | 3x 1.40 | 1606-XLE960MX-3N |







## Bulletin 1606-XLP Compact Switched Mode Power Supplies

When saving critical space is one of your main objectives, the XLP line is an excellent choice. These devices are equipped with many of the same features and certifications as previous generations and support low-power applications. This line is ideal if you require a cost-effective way to save space while delivering safe and reliable power.

- Rated outputs between 15…100 W (0.6…4.2 A at 24V DC)
- Multiple output voltages available
- Smaller, cost-effective solution for low power applications

| | Input Voltage | Output Voltage [V DC] | Output Power [W] | Output Current [A] | Steady State Input Current | | | Cat. No. |
|---|---|---|---|---|---|---|---|---|
| | | | | | 120V AC | 230V AC | 400V AC-480V AC | |
| Bulletin 1606-XLP Compact Single Phase ⌘ | 100…240V AC, 85…375V DC | 5…5.5 | 15 | 3 | 0.28 | 0.17 | | 1606-XLP15A |
| | | 12…15 | 15 | 1.3 | 0.28 | 0.17 | | 1606-XLP15B |
| | | 24…28 | 15 | 0.6 | 0.28 | 0.17 | | 1606-XLP15E |
| | | 5…5.5 | 25 | 5 | 0.60 | 0.30 | | 1606-XLP25A |
| | | 10…12 | 30 | 3 | 0.60 | 0.25 | | 1606-XLP30B |
| | | 24…28 | 30 | 1.3 | 0.60 | 0.35 | | 1606-XLP30E |
| | | 24…28 | 30 | 1.3 | 0.54 | 0.30 | | 1606-XLP30EQ |
| | | ± 12/15 | 36 | 2.8 | 0.65 | 0.40 | | 1606-XLP36C |
| | | 12…15 | 50 | 4.2 | 1.00 | 0.60 | | 1606-XLP50B |
| | | 24…28 | 50 | 2.1 | 0.77 | 0.44 | | 1606-XLP50E |
| | | 24…28 | 50 | 2.1 | 1.00 | 0.60 | – | 1606-XLP50EZ |
| | | 48…56 | 50 | 1 | 1.00 | 0.60 | | 1606-XLP50F |
| | 100…240V AC, 110…300V DC | 12…15 | 54 | 4.5 | 0.91 | 0.54 | | 1606-XLP60BQ |
| | | 12…15 | 54 | 4.5 | 0.97 | 0.61 | | 1606-XLP60BQT |
| | | 24…28 | 60 | 2.5 | 0.98 | 0.58 | | 1606-XLP60EQ |
| | | 24…28 | 60 | 2.5 | 1.05 | 0.66 | | 1606-XLP60EQT |
| | 100…120/220…240V AC, 220…375V DC | 24…28 | 72 | 3 | 1.60 | 0.80 | | 1606-XLP72E |
| | | 12…15 | 90 | 7.5 | 1.90 | 0.90 | | ✠ ♦ 1606-XLP90B |
| | 100…200/200…240V AC, 220…375V DC | 24…28 | 95 | 3.9 | 2.00 | 0.95 | | ♦ 1606-XLP95E |
| | | 24…28 | 100 | 4.2 | 2.10 | 1.00 | | ✠ ♦ 1606-XLP100E |
| | | 48…56 | 100 | 2.1 | 2.10 | 1.00 | | ✠ ♦ 1606-XLP100F |
| Two Phase ✠ ⌘ ✦ | 380…480V AC | 24…28 | 90 | 3.75 | – | – | 2x 0.36 | 1606-XLP90E-2 |
| | | 24…28 | 100 | 4.2 | – | – | 2x 0.40 | 1606-XLP100E-2 |

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## Bulletin 1606-XLS Performance Switched Mode Power Supplies

Building on the successful design of its predecessors, the XLS line couples a new technology that significantly reduces unit size yet delivers a 150% power boost. Sleek and compact, these highly efficient devices have enough reserve current available to start even your most stubborn loads.

- Rated outputs between 80…960 W (3.3...40 A at 24V DC)
- 150% power boost feature handles start-up loads
- Buffer modules provide a short boost function, buffering load currents during typical main faults, switching events or load peaks

| | Input Voltage | Output Voltage [V DC] | Output Power [W] | Output Current [A] | Steady State Input Current | | | Cat. No. |
|---|---|---|---|---|---|---|---|---|
| | | | | | 120V AC | 230V AC | 400V AC-480V AC | |
| Bulletin 1606-XLS Performance Single Phase ⌘ ✦ | 100…240V AC, 110…300V DC | 24…28 | 80 | 3.3 | 1.42 | 0.82 | – | 1606-XLS80E |
| | | 24…28 | 120 | 5 | 1.10 | 0.62 | | 1606-XLS120E |
| | | 24…28 | 120 | 5 | 1.10 | 0.62 | | 1606-XLS120EA |
| | | 12…15 | 180 | 15 | 1.65 | 0.93 | | 1606-XLS180B |
| | | 24…28 | 240 | 10 | 2.22 | 1.22 | | 1606-XLS240E |
| | | 24…28 | 240 | 10 | 2.22 | 1.22 | | 1606-XLS240EA |
| | | 24…28 | 240 | 10 | 2.22 | 1.22 | | ❄ 1606-XLS240EC |
| | | 48…56 | 240 | 5 | 2.22 | 1.22 | | 1606-XLS240F |
| | | 28…32 | 240 | 8 | 2.22 | 1.22 | | 1606-XLS240K |
| | | 24…28 | 480 | 20 | 4.56 | 2.48 | | 1606-XLS480E |
| | | 24…28 | 480 | 20 | 4.56 | 2.48 | | 1606-XLS480EA |
| | | 24…28 | 480 | 20 | 4.56 | 2.48 | | ❄ 1606-XLS480EC |
| | 200…240V AC | 24…28 | 480 | 20 | – | 4.45 | | 1606-XLS480EE |
| | 100…240V AC, 110…300V DC | 48…56 | 480 | 10 | 4.56 | 2.48 | | 1606-XLS480F |
| | | 36…42 | 480 | 13.3 | 4.56 | 2.48 | | 1606-XLS480G |
| | 200…240V AC, 220…300V DC | 24…28 | 960 | 34.3 | – | 4.6 | | 1606-XLS960EE |
| | | 48…56 | 960 | 20 | – | 4.6 | | 1606-XLS960FE |
| Three Phase ⌘ ✦ | 380…480V AC, 600V DC | 24…28 | 480 | 20 | | | 3x 0.65 | 1606-XLS480E-3 |
| | 380…480V AC, 600V DC | 24…28 | 480 | 20 | | | 3x 0.65 | ❄ 1606-XLS480E-3C |
| | 360…900V DC | 24…28 | 480 | 20 | | | 3x 0.85 | 1606-XLS480E-D |
| | 380…480V AC, 600V DC | 48…56 | 480 | 10 | | | 3x 0.65 | 1606-XLS480F-3 |
| | | 36…42 | 480 | 13.3 | | | 3x 0.65 | 1606-XLS480G-3 |
| | | 24…28 | 960 | 40 | | | 3x 1.35 | 1606-XLS960E-3 |
| | | 48…54 | 960 | 20 | | | 3x 1.35 | 1606-XLS960F-3 |

* For additional surge and filter protection, see Bulletin 4983 products
** Requires 2PCS, 1 per phase

⌘ Parallel operation (inclined characteristic)
✦ Meets EN 61000-3-2 PFC harmonics
❄ The C suffix of the cat. no. indicates that the product has conformal coating
✶ Parallel operation is for 1 + 1 redundancy only
✠ Single/parallel operation (inclined characteristic) selectable via jumper



## Bulletin 1606 Special Modules

| | Input Voltage | Output Voltage [V DC] | Output Power [W] | Output Current [A] | Steady State Input Current | | Cat. No. |
|---|---|---|---|---|---|---|---|
| | | | | | 120V AC | 230V AC | |
| Bulletin 1606 Special Modules | 10…60V DC | Vin 1 - .9V typ | 384 | 16 | - | - | 1606-XLPRED |
| | 24…60V DC | Vin 1 - .9V typ | 480 | 20 | - | - | 1606-XLERED |
| | 100…120/200…240V AC | 24…28 | 80 | 3.3 | 1.50 | 0.68 | 1606-XLEDNET3 |
| | 10…60V DC | Vin 1 - .9V typ | 480 | 20 | - | - | 1606-XLSRED |
| | 24…28 | Vin 2.15 typ | 960 | 40 | - | - | 1606-XLSRED40 |
| | 24…28 | Vin 2.7 typ | 1920 | 80 | - | - | 1606-XLSRED80 |
| | 100…240V AC, 110…300V DC | 24 | 91 | 3.8 | 1.02 | 0.48 | 1606-XLSDNET4 |
| | 100…240V AC, 110…300V DC | 24 | 192 | 8 | 2.13 | 1.00 | 1606-XLSDNET8 |
| Bulletin 1606 Special Modules with UPS | 22.5…30V DC | 22.5 | 240 | 10 | - | - | 1606-XLS240-UPS |
| | 22.5…30V DC | 22.5 | 240 | 10 | - | - | 1606-XLS240-UPSC |
| | 22.5…30V DC | 12/22.5 | 240 | 5/10 | - | - | 1606-XLS240-UPSD |
| | 22.5…30V DC | 22.5 | 240 | 10 | - | - | 1606-XLS240-UPSE |
| | 24…28.8V DC | 22.5…27.8 | 480 | 20 | - | - | 1606-XLSBUFFER24 |
| | 48…56V DC | 45…54 | 960 | 10 | - | - | 1606-XLSBUFFER48 |

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## Comparison










| | XLE Series | XLP Series | XLS Series |
|---|---|---|---|
| AC input voltage | 115/230 auto select | 115/230 auto select | 100/240 wide range |
| DC input voltage Single- / three-phase | 210-375/450-780 | 85-375 | 88-375/450-780 |
| Watt range [W] | 80-960 | 15-100 | 80-960 |
| Adj. output voltage | Yes | Yes | Yes |
| Multiple output voltage [V] | 12, 24, 48 | 5 12, 15, 24, 48 | 12, 24, 30, 36, 48 |
| Power boost | 20% power boost | - | 50% power boost |
| DC-OK signal | Yes* | Yes | Yes |
| Temperature range | -25…+60 ˚C | -40…+70 ˚C | -25…+60 ˚C |
| Efficiency | 90…92% | 80…90% | 91.6….95% |
| Terminals | Screw | Screw/Spring Clamp | Spring clamp |

* DC–OK contact available on select models only.

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