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[PWR-IE50W-AC=](#)

[PWR-IE170W-PC-  
DC](#)

[PWR-IE240W-  
PCAC-L](#)

[PWR-IE480W-  
PCAC-L](#)

[PWR-IE50W-AC-  
IEC](#)

**EN**

This Datasheet is presented by  
the manufacturer

**DE**

Dieses Datenblatt wird vom  
Hersteller bereitgestellt

**FR**

Cette fiche technique est  
présentée par le fabricant

# Cisco Industrial Din-Rail Power Supplies

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The Cisco® portfolio of industrial din-rail power supplies offers a wide range of options to power your industrial Ethernet switches, industrial routers, and industrial computing products.

## Product overview

The Cisco industrial din-rail power supplies offer a variety of rugged, reliable, and compact AC and DC power supply options to power Cisco's industrial Ethernet switches, industrial routers (including industrial gateways), and industrial computing products. Some key features include:

- Power supply options from 50W to 480W
- Operating temperatures ranging between -40° C and +85° C
- Din-rail mountable options
- Enablement of high capacity Power over Ethernet (PoE)
- Conformal coating options

Table 1 shows a list of all din-rail power supplies.

**Table 1.** Din-rail power supplies part numbers and descriptions

| Part number               | Product description                             | PoE / PoE+ support |
|---------------------------|-------------------------------------------------|--------------------|
| <b>PWR-IE50W-AC-L=</b>    | 50W AC to DC power supply                       | No                 |
| <b>PWR-IE50W-AC=</b>      | 50W AC to DC or High DC to DC power supply      | No                 |
| <b>PWR-IE50W-AC-IEC=</b>  | 50W AC to DC power supply with an IEC connector | No                 |
| <b>PWR-IE65W-PC-AC=</b>   | 65W AC to DC or High DC to DC power supply      | Yes                |
| <b>PWR-IE65W-PC-DC=</b>   | 65W Low DC to DC power supply                   | Yes                |
| <b>PWR-IE170W-PC-AC=</b>  | 170W AC to DC or High DC to DC power supply     | Yes                |
| <b>PWR-IE170W-PC-DC=</b>  | 170W Low DC to DC power supply                  | Yes                |
| <b>PWR-IE240W-PCAC-L=</b> | 240W AC to DC power supply                      | Yes                |
| <b>PWR-IE480W-PCAC-L=</b> | 480W AC to DC power supply                      | Yes                |

## Product specifications

Table 2 lists the input specification for Cisco industrial power supplies. Table 3 lists the output specifications.

**Table 2.** Input specifications

| Product ID                | Rated nominal input operating range                   | Supported input voltage operating range | Typical efficiency | Inrush current at 25C ambient   | Remarks                                           |
|---------------------------|-------------------------------------------------------|-----------------------------------------|--------------------|---------------------------------|---------------------------------------------------|
| <b>PWR-IE50W-AC-L=</b>    | AC 100-240V/1.2A, 50-60Hz                             | AC 90-264V                              | 88%                | < 35A @ 115VAC and 70A @ 230VAC | Not approved for hazardous location installations |
| <b>PWR-IE50W-AC=</b>      | AC 100-240V/1.25A, 50-60Hz<br>or<br>DC 125-250V/1.25A | AC 90-264V<br>or<br>DC 106-300V         | 80%                | < 35A @ 115VAC and 70A @ 230VAC | Approved for Class 1, Div 2/Zone 2 installations  |
| <b>PWR-IE50W-AC-IEC=</b>  | AC 100-240V/1.25A, 50-60Hz                            | AC 90-264V                              | 80%                | < 35A @ 115VAC and 70A @ 230VAC | Not approved for hazardous location installations |
| <b>PWR-IE65W-PC-AC=</b>   | AC 100-240V/1.4A, 50-60Hz<br>or<br>DC 125-250V/1.0A   | AC 90-264V<br>or<br>DC 106-300V         | 85%                | < 35A @ 115VAC and 70A @ 230VAC | Approved for Class 1, Div 2/Zone 2 installations  |
| <b>PWR-IE65W-PC-DC=</b>   | DC 24-48VDC/4.5A                                      | DC 18-60V                               | 92%                | 4A@24VDC                        | Approved for Class 1, Div 2/Zone 2 installations  |
| <b>PWR-IE170W-PC-AC=</b>  | AC 100-240V/2.3A, 50-60Hz<br>or<br>DC 125-250V/2.1A   | AC 90-264V<br>or<br>DC 106-300V         | 88%                | < 35A @ 115VAC and 70A @ 230VAC | Approved for Class 1, Div 2/Zone 2 installations  |
| <b>PWR-IE170W-PC-DC=</b>  | DC 12-54V/2.3A                                        | DC 10.8-60V                             | 88%                | 17.3A @ 12VDC                   | Approved for Class 1, Div 2/Zone 2 installations  |
| <b>PWR-IE240W-PCAC-L=</b> | AC 100-240V/3.5A, 50-60Hz                             | AC 90-264V                              | 91%                | < 35A @ 115VAC and 230VAC       | Not approved for hazardous location installations |
| <b>PWR-IE480W-PCAC-L=</b> | AC 100-240V/6A, 50-60Hz                               | AC 90-264V                              | 92%                | < 35A @ 115VAC and 230VAC       | Not approved for hazardous location installations |

## Output specifications

| Product ID         | Nominal output voltage / adjustment range | Max output power | Holdup time at 100% load           | Protections                                                                                                   |
|--------------------|-------------------------------------------|------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------|
| PWR-IE50W-AC-L=    | 24VDC / 24-28VDC, 2.1A                    | 50W              | 20ms                               | Over voltage protection<br>Over current protection<br>Over temperature protection<br>Short circuit protection |
| PWR-IE50W-AC=      | 24VDC, 2.1A                               | 50W              | 20ms                               |                                                                                                               |
| PWR-IE50W-AC-IEC=  | 24VDC, 2.1A                               | 50W              | 20ms                               |                                                                                                               |
| PWR-IE65W-PC-AC=   | 54VDC, 1.2A                               | 65W              | 10ms                               |                                                                                                               |
| PWR-IE65W-PC-DC=   | 54VDC, 1.2A                               | 65W              |                                    |                                                                                                               |
| PWR-IE170W-PC-AC=  | 54VDC, 1.3A                               | 170W             | 20ms                               |                                                                                                               |
| PWR-IE170W-PC-DC=  | 54VDC, 3.2A                               | 170W             | 9ms (@10.8VDC) to 25.9ms (@ 60VDC) |                                                                                                               |
| PWR-IE240W-PCAC-L= | 54VDC / 48-56VDC, 4.5A                    | 240W             | 20ms                               |                                                                                                               |
| PWR-IE480W-PCAC-L= | 54VDC / 48-56VDC, 8.9A                    | 480W             | 20ms                               |                                                                                                               |

Table 3 lists the environmental specifications for Cisco industrial power supplies.

**Table 3.** Environmental specifications

| Product ID        | IP rating | Operating temperature | Storage temperature | Power de-rating                                                        | Operating humidity           |
|-------------------|-----------|-----------------------|---------------------|------------------------------------------------------------------------|------------------------------|
| PWR-IE50W-AC-L=   | IP20      | -20° C to +70° C      | -40° C to +85° C    | > 55° C de-rate power by 3.33%/° C<br>< -10° C de-rate power by 2%/° C | 5 to 95% RH (non-condensing) |
| PWR-IE50W-AC=     | IP20      | -40° C to +75° C      | -40° C to +85° C    | No derating                                                            | <95% RH (non-condensing)     |
| PWR-IE50W-AC-IEC= | IP20      | -20° C to +70° C      | -40° C to +85° C    | No derating                                                            | <95% RH (non-condensing)     |
| PWR-IE65W-PC-AC=  | IP20      | -40° C to +75° C      | -40° C to +85° C    | No derating                                                            | <95% RH (non-condensing)     |
| PWR-IE65W-PC-DC=  | IP20      | -40° C to +75° C      | -40° C to +85° C    | No derating                                                            | <95% RH (non-condensing)     |
| PWR-IE170W-PC-AC= | IP20      | -40° C to +75° C      | -40° C to +85° C    | No derating                                                            | <95% RH (non-condensing)     |
| PWR-IE170W-PC-DC= | IP20      | -40° C to +75° C      | -40° C to +85° C    | No derating                                                            | <95% RH (non-condensing)     |

| Product ID                | IP rating | Operating temperature | Storage temperature | Power de-rating                                                                                                      | Operating humidity              |
|---------------------------|-----------|-----------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>PWR-IE240W-PCAC-L=</b> | IP20      | -40° C to +80° C      | -40° C to +85° C    | Vertical mounting:<br>> 50° C de-rate power by 2.5%/° C<br>Horizontal mounting:<br>> 40° C de-rate power by 2.5%/° C | 5 to 95% RH<br>(non-condensing) |
| <b>PWR-IE480W-PCAC-L=</b> | IP20      | -40° C to +75° C      | -40° C to +85° C    | Vertical mounting:<br>> 50° C de-rate power by 2.5%/° C<br>> 70° C de-rate power by 5%/° C                           | 5 to 95% RH<br>(non-condensing) |

## Safety standards / EMC

| Product ID               | Electric safety                                                                                                                                                                                                                                                                                     | EMC/ Industry standards                                                                                                                                                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PWR-IE50W-AC-L=</b>   | CE (EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC)<br>UL/cUL recognized to UL 60950-1 and CSA C22.2 No. 60950-1<br>UL/cUL recognized to UL 62368-1 and CSA C22.2 No. 62368-1<br>UL/cUL listed to UL 508 and CSA C22.2 No. 107.1-01<br>CB scheme to IEC 60950-1, LPS<br>NEC Class 2 | EN 61000-3-2 Class A, EN 61000-3-3<br>EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4,<br>EN 61204-3, EN 55024 (EN 61000-4-2,3,4,5,6,8,11 LEVEL 3, Performance Criteria A)<br>CISPR 22, EN 55022, CISPR 11, EN 55011, FCC part 15B |
| <b>PWR-IE50W-AC=</b>     | EN60950-1: 2006+A1: 2010+A11: 2009+A12:<br>2011+A2: 2013, EN61131-2: 2007<br>EN62368-1: 2014 + A11: 2017<br>IEC60950-1: 2005+A1: 2009+A2: 2013<br>IEC62368-1: 2014<br>EN 60079-0:2012 + A11:2013, EN 60079-15:2010<br>CE                                                                            | EN61000-4-2, EN61000-4-4, EN61000-4-5, EN61000-4-8, EN 61000-4-11<br>IEC61000-4-11, IEC61000-4-12, IEC61000-4-16<br>FCC part 15B                                                                                                          |
| <b>PWR-IE50W-AC-IEC=</b> | EN60950-1: 2006+A1: 2010+A11: 2009+A12: 2011+A2: 2013, EN62368-1: 2014 + A11: 2017<br>CE                                                                                                                                                                                                            | EN61000-4-2, EN61000-4-4, EN61000-4-5, EN61000-4-8, EN 61000-4-11<br>IEC61000-4-11, IEC61000-4-12, IEC61000-4-16<br>FCC part 15B                                                                                                          |

| Product ID                | Electric safety                                                                                                                                                                                                                                                                 | EMC/ Industry standards                                                                                                                                                                                                                                                |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PWR-IE65W-PC-AC=</b>   | EN60950-1: 2006+A1: 2010+A11: 2009 +A12: 2011+A2: 2013, EN61131-2: 2007<br>EN62368-1: 2014 + A11: 2017 IEC60950-1: 2005+A1: 2009+A2: 2013 IEC62368-1: 2014<br>UL 508<br>Class 1, Div 2/ Zone 2 Hazardous location<br>CE                                                         | EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, IEC61000-3-3, EN/IEC61000-4-11, IEC61000-4-12, EN61131-2: 2007<br>EN 55032: 2012/AC: 2013, EN 55024: 2010<br>FCC part 15B<br>IEC 61850-3, IEEE1613<br>EN 61000-6-4, EN 61000-6-2         |
| <b>PWR-IE65W-PC-DC=</b>   | EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013<br>UL 508<br>Class 1, Div2/ Zone 2 Hazardous Location<br>CCC<br>CE                                                                                                                                                   | EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN 55032:2015, EN 55024: 2010+A1:2015<br>EN55032:2015, EN 55024: 2010<br>FCC part 15B<br>IEC 61850-3, IEEE1613<br>EN 61000-6-4, EN 61000-6-2                                             |
| <b>PWR-IE170W-PC-AC=</b>  | IEC60950-1: 2005+A1: 2009+A2: 2013<br>EN60950-1: 2006+A1: 2010+A11: 2009 +A12: 2011+A2: 2013,<br>KCC mark, BSMI mark, CCC, CB Scheme, Class 1, Div2/ Zone 2 Hazardous Location<br>CE                                                                                            | EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, IEC61000-3-3, EN/IEC61000-4-11, IEC61000-4-12<br>EN 55032: 2012/AC: 2013, EN 55024: 2010<br>FCC part 15B<br>EN61131-2: 2007<br>IEC 61850-3, IEEE 1613                                    |
| <b>PWR-IE170W-PC-DC=</b>  | EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013<br>UL 508<br>Class 1, Div 2/Zone 2 Hazardous location<br>CE                                                                                                                                                          | EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN 55032:2015, EN 55024: 2010+A1:2015<br>EN55032:2015, EN 55024: 2010<br>FCC part 15B<br>IEC 61850-3, IEEE1613<br>EN 61000-6-4, EN 61000-6-2                                             |
| <b>PWR-IE240W-PCAC-L=</b> | SIQ Bauart to EN 60950-1<br>UL/cUL recognized to UL 60950-1 and CSA C22.2 No. 60950-1 UL/cUL recognized to UL 62368-1 and CSA C22.2 No. 62368-1<br>CB scheme to IEC 60950-1<br>UL 508 and CSA C22.2 No. 107.1-01 (File No. E315355)<br>CSA C22.2 No. 107.1-01 (File No. 181564) | EN 61000-3-2 Class A, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2,<br>EN 61204-3, EN 55024 (EN 61000-4-2 LEVEL 3, Performance Criteria A and EN 61000-4-3,4,5,6,8,11,12 LEVEL 3, Performance Criteria A)<br>CISPR 32, EN 55032, CISPR 11, EN 55011, FCC Title 47: Class A |

| Product ID                | Electric safety                                                                                                                                                                                                                                                                 | EMC/ Industry standards                                                                                                                                                                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PWR-IE480W-PCAC-L=</b> | SIQ Bauart to EN 60950-1<br>UL/cUL recognized to UL 60950-1 and CSA C22.2 No. 60950-1<br>UL/cUL recognized to UL 62368-1 and CSA C22.2 No. 62368-1 CB scheme to IEC 60950-1<br>UL 508 and CSA C22.2 No. 107.1-01 (File No. E315355)<br>CSA C22.2 No. 107.1-01 (File No. 181564) | EN 61000-3-2 Class A, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2,<br>EN 61204-3, EN 55024 (EN 61000-4-2 LEVEL 3, Performance Criteria A and EN 61000-4-3,4,5,6,8,11,12 LEVEL 3, Performance Criteria A)<br>CISPR 32, EN 55032, CISPR 11, EN 55011,<br>FCC Title 47: Class A |

## Mechanical / Reliability data

| Product ID                | Dimensions (W x H x D)                                    | Unit weight       | MTBF (Telcordia SR-332) |
|---------------------------|-----------------------------------------------------------|-------------------|-------------------------|
| <b>PWR-IE50W-AC-L=</b>    | 30 mm x 75 mm x 89.5 mm<br>1.18 in x 2.95 in x 3.52 in    | 0.39 lb (0.18 kg) | 2,255,613 hours         |
| <b>PWR-IE50W-AC=</b>      | 51 mm x 118 mm x 148 mm<br>2 in x 4.64 in x 5.82 in       | 1.41 lb (0.64 kg) | 1,662,359 hours         |
| <b>PWR-IE50W-AC-IEC=</b>  | 51 mm x 118 mm x 148 mm<br>2 in x 4.64 in x 5.82 in       | 1.43 lb (0.65 kg) | 1,662,359 hours         |
| <b>PWR-IE65W-PC-AC=</b>   | 63.5 mm x 148 mm x 118 mm<br>2.5 in x 5.82 in x 4.64 in   | 2.64 lb (1.2 kg)  | 2,488,401 hours         |
| <b>PWR-IE65W-PC-DC=</b>   | 66 mm x 150 mm x 117 mm<br>2.59 in x 5.90 in x 4.60 in    | 2.60 lb (1.18 kg) | 4,802,673 hours         |
| <b>PWR-IE170W-PC-AC=</b>  | 96 mm x 150 mm x 146 mm<br>3.77 in x 5.90 in x 5.74 in    | 3.88 lb (1.76 kg) | 2,384,975 hours         |
| <b>PWR-IE170W-PC-DC=</b>  | 114 mm x 150 mm x 146 mm<br>4.48 in x 5.90 in x 5.74 in   | 3.68 lb (1.67 kg) | 2,164,641 hours         |
| <b>PWR-IE240W-PCAC-L=</b> | 85 mm x 121 mm x 124.1 mm<br>3.34 in x 4.76 in x 4.88 in  | 2.11 lb (0.96 kg) | 1,579,900 hours         |
| <b>PWR-IE480W-PCAC-L=</b> | 144 mm x 121 mm x 118.6 mm<br>5.66 in x 4.76 in x 4.66 in | 3.02 lb (1.37 kg) | 1,058,750 hours         |

## Ordering information

Table 4 provides ordering information for Cisco industrial power supplies.

**Table 4.** Ordering information

| Part #                 | Product description       |
|------------------------|---------------------------|
| <b>PWR-IE50W-AC-L=</b> | 50W AC to DC power supply |
| <b>PWR-IE50W-AC=</b>   | 50W AC to DC power supply |

| Part #             | Product description                          |
|--------------------|----------------------------------------------|
| PWR-IE50W-AC-IEC=  | 50W AC to DC power supply with IEC connector |
| PWR-IE65W-PC-AC=   | 65W AC to DC power supply                    |
| PWR-IE65W-PC-DC=   | 65W DC to DC power supply                    |
| PWR-IE170W-PC-AC=  | 170W AC to DC power supply                   |
| PWR-IE170W-PC-DC=  | 170W DC to DC power supply                   |
| PWR-IE240W-PCAC-L= | 240W AC to DC power supply                   |
| PWR-IE480W-PCAC-L= | 480W AC to DC power supply                   |

## Warranty information

Cisco offers a five-year limited warranty on all industrial Ethernet power supplies. Warranty information is available at <https://www.cisco-servicefinder.com/warrantyfinder.aspx>.

## Cisco Capital

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## Document history

| New or Revised Topic                                                                 | Described In     | Date         |
|--------------------------------------------------------------------------------------|------------------|--------------|
| Removed IP67 power supplies from this datasheet as they are not “DIN Rail” mountable | Entire Datasheet | Dec. 5, 2019 |

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PWR-IE50W-AC-L

PWR-IE65W-PC-  
AC

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