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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
PWR-IE50W-AC-L=	50W AC to DC power supply	No
PWR-IE50W-AC=	50W AC to DC or High DC to DC power supply	No
PWR-IE50W-AC-IEC=	50W AC to DC power supply with an IEC connector	No
PWR-IE65W-PC-AC=	65W AC to DC or High DC to DC power supply	Yes
PWR-IE65W-PC-DC=	65W Low DC to DC power supply	Yes
PWR-IE170W-PC-AC=	170W AC to DC or High DC to DC power supply	Yes
PWR-IE170W-PC-DC=	170W Low DC to DC power supply	Yes
PWR-IE240W-PCAC-L=	240W AC to DC power supply	Yes
PWR-IE480W-PCAC-L=	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
PWR-IE50W-AC-L=	AC 100-240V/1.2A, 50-60Hz	AC 90-264V	88%	< 35A @ 115VAC and 70A @ 230VAC	Not approved for hazardous location installations
PWR-IE50W-AC=	AC 100-240V/1.25A, 50-60Hz or DC 125-250V/1.25A	AC 90-264V or DC 106-300V	80%	< 35A @ 115VAC and 70A @ 230VAC	Approved for Class 1, Div 2/Zone 2 installations
PWR-IE50W-AC-IEC=	AC 100-240V/1.25A, 50-60Hz	AC 90-264V	80%	< 35A @ 115VAC and 70A @ 230VAC	Not approved for hazardous location installations
PWR-IE65W-PC-AC=	AC 100-240V/1.4A, 50-60Hz or DC 125-250V/1.0A	AC 90-264V or DC 106-300V	85%	< 35A @ 115VAC and 70A @ 230VAC	Approved for Class 1, Div 2/Zone 2 installations
PWR-IE65W-PC-DC=	DC 24-48VDC/4.5A	DC 18-60V	92%	4A@24VDC	Approved for Class 1, Div 2/Zone 2 installations
PWR-IE170W-PC-AC=	AC 100-240V/2.3A, 50-60Hz or DC 125-250V/2.1A	AC 90-264V or DC 106-300V	88%	< 35A @ 115VAC and 70A @ 230VAC	Approved for Class 1, Div 2/Zone 2 installations
PWR-IE170W-PC-DC=	DC 12-54V/2.3A	DC 10.8-60V	88%	17.3A @ 12VDC	Approved for Class 1, Div 2/Zone 2 installations
PWR-IE240W-PCAC-L=	AC 100-240V/3.5A, 50-60Hz	AC 90-264V	91%	< 35A @ 115VAC and 230VAC	Not approved for hazardous location installations
PWR-IE480W-PCAC-L=	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 Over current protection Over temperature protection 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 < -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
PWR-IE240W-PCAC-L=	IP20	-40°C to +80°C	-40°C to +85°C	Vertical mounting: > 50°C de-rate power by 2.5%/°C Horizontal mounting: > 40°C de-rate power by 2.5%/°C	5 to 95% RH (non-condensing)
PWR-IE480W-PCAC-L=	IP20	-40°C to +75°C	-40°C to +85°C	Vertical mounting: > 50°C de-rate power by 2.5%/°C > 70°C de-rate power by 5%/°C	5 to 95% RH (non-condensing)

Safety standards / EMC

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

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

Product ID	Electric safety	EMC/ Industry standards
PWR-IE480W-PCAC-L=	<p>SIQ Bauart to EN 60950-1</p> <p>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 CB scheme to IEC 60950-1</p> <p>UL 508 and CSA C22.2 No. 107.1-01 (File No. E315355)</p> <p>CSA C22.2 No. 107.1-01 (File No. 181564)</p>	<p>EN 61000-3-2 Class A, EN 61000-3-3, EN 61000-6-1, EN 61000-6-2,</p> <p>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)</p> <p>CISPR 32, EN 55032, CISPR 11, EN 55011,</p> <p>FCC Title 47: Class A</p>

Mechanical / Reliability data

Product ID	Dimensions (W x H x D)	Unit weight	MTBF (Telcordia SR-332)
PWR-IE50W-AC-L=	30 mm x 75 mm x 89.5 mm 1.18 in x 2.95 in x 3.52 in	0.39 lb (0.18 kg)	2,255,613 hours
PWR-IE50W-AC=	51 mm x 118 mm x 148 mm 2 in x 4.64 in x 5.82 in	1.41 lb (0.64 kg)	1,662,359 hours
PWR-IE50W-AC-IEC=	51 mm x 118 mm x 148 mm 2 in x 4.64 in x 5.82 in	1.43 lb (0.65 kg)	1,662,359 hours
PWR-IE65W-PC-AC=	66 mm x 148 mm x 118 mm 2.5 in x 5.82 in x 4.64 in	2.64 lb (1.2 kg)	2,488,401 hours
PWR-IE65W-PC-DC=	66 mm x 150 mm x 117 mm 2.59 in x 5.90 in x 4.60 in	2.60 lb (1.18 kg)	4,802,673 hours
PWR-IE170W-PC-AC=	96 mm x 150 mm x 146 mm 3.77 in x 5.90 in x 5.74 in	3.88 lb (1.76 kg)	2,384,975 hours
PWR-IE170W-PC-DC=	114 mm x 150 mm x 146 mm 4.48 in x 5.90 in x 5.74 in	3.68 lb (1.67 kg)	2,164,641 hours
PWR-IE240W-PCAC-L=	85 mm x 121 mm x 124.1 mm 3.34 in x 4.76 in x 4.88 in	2.11 lb (0.96 kg)	1,579,900 hours
PWR-IE480W-PCAC-L=	144 mm x 121 mm x 118.6 mm 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
PWR-IE50W-AC-L=	50W AC to DC power supply
PWR-IE50W-AC=	50W AC to DC power supply
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>.

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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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