XP Power — DC-DC Converters Selector Guide

PCB Mount

0.25W to 1W

IK

- 0.25 watt
- ±10% input
- Unregulated
- SIP4 & DIP8 packages
- 1kV isolation, 3kV option

IE/IEB01

- ±10% input
- Unregulated
- SIP4 & DIP8 packages
- 1kV, 1.5kV, 3kV isolation
- Single outputs

IA/ITA/ IAB01

- ±10% input
- Unregulated SIP7
- High operating temperature
- 1kV & 1.5kV isolation
- Dual outputs

IHA01 (M)

- ±10% input
- Unregulated
- SIP7 package
- 6kV isolation
- Single & dual outputs

ITV/IV/ IVB01

- ±10% input
- Unregulated
- SIP7 & DIP14 packages
- Up to 6kV isolation
- Single & dual outputs

IF

- ±10% input
- Regulated
- SIP7 & DIP14 package
- 1kV isolation
- 3kV isolation option

ITW/IW

- 2:1 input
- Regulated
- SIP & DIP package
- Up to 3kV isolation
- Single & dual outputs

2W

IL

- ±10% input
- Unregulated
- SIP4 package
- 1kV isolation
- 3kV isolation option

IHL02 (M)

- ±10% input
- Unregulated
- SIP7 package
- 5.2kV isolation
- Single & dual outputs

IH

- ±10% input
- Unregulated
- SIP7 & DIP14 package
- Up to 6kV isolation
- Dual outputs

IU

- 2:1 input
- Regulated
- SIP8 & DIP16 package
- 1kV isolation, 3kV option
- Single & dual outputs

IEU02

- 2:1 input
- Regulated
- DIP8 package
- 1.5kV isolation
- Single & dual outputs

JCA02

- 2:1 input
- Regulated
- 25.4 x 20.3mm DIP24
- 1.5kV basic isolation
- Single & dual outputs

IM

- 4:1 input
- Regulated
- SIP9 package
- 1.5kV isolation
- Single & dual outputs

3W

ITR03

- ±10% input
- Unregulated
- SIP4 package
- 3kV isolation
- 85°C operating temp

IR

- ±10% input
- Semi-regulated
- SIP7 package
- 1kV isolation, 3kV option
- Single & dual outputs

IZ/ IZB03

- 2:1 input
- Regulated
- SIP8 package
- 1.6kV isolation, 3kV option
- Single & dual outputs

JCA03

- 2:1 input
- Regulated
- 25.4 x 20.3mm DIP24
- 1.5kV basic isolation
- Single & dual outputs

JCE03

- 2:1 input
- Regulated
- DIP24 package
- 1.5kV isolation, 3kV option
- Single & dual outputs

ITP03

- 4:1 input
- Regulated
- SIP6 package
- 1.6kV isolation
- Single & dual outputs

ITU03

- 4:1 input
- Regulated
- DIP8 package
- 1.6kV isolation
- Single & dual outputs

JTE03

- 4:1 input
- Regulated
- DIP24 package
- 1.5kV isolation, 3kV option
- Single & dual outputs

4W to 5W

JCA04

- 2:1 input
- 25.4 x 20.3mm DIP24
- 1.5kV basic isolation
- ITE safety approvals
- Single & dual outputs

JCD04

- 2:1 input
- DIP24 package
- 1.6kV isolation, 3.5kV option
- ITE safety approvals
- Single & dual outputs

JTC04

- 4:1 input
- DIP24 package
- 1.5kV isolation, 3.5kV option
- Short circuit protection
- Single & dual outputs

IEQ05

- 4:1 input
- SIP8 package
- 1.5kV isolation
- Remote On/Off
- Single & dual outputs

JCD05

- 2:1 input
- DIP24 package
- 1.6kV isolation, 3.5kV option
- ITE safety approvals
- Single & dual outputs

6W

ITX

- 2:1 input
- SIP8 package
- 1.5kV isolation, 3kV option
- ITE safety approvals
- Single & dual outputs

JCA06

- 2:1 input
- 25.4 x 20.3mm DIP24
- 1.5kV basic isolation
- ITE safety approvals
- Single & dual outputs

JCE06

- 2:1 input
- DIP24 package
- 1.5kV isolation, 3kV option
- ITE safety approvals
- Single & dual outputs

JCD06

- 2:1 input
- DIP24 package
- 1.6kV isolation, 3.5kV option
- ITE safety approvals
- Single & dual outputs

ITQ

- 4:1 input
- SIP8 package
- 1.5kV isolation, 3kV option
- ITE safety approvals
- Single & dual outputs

JWE06

- 4:1 input
- DIP16 package
- 1.5kV isolation
- ITE safety approvals
- Single & dual outputs

JTE06

- 4:1 input
- DIP24 package
- 1.5kV isolation, 3kV option
- ITE safety approvals
- Single & dual outputs

8W to 9W

JSE08

- 2:1 input
- DIP16 package
- 1.5kV isolation
- ITE safety approvals
- Single & dual outputs

JCJ08

- 2:1 input
- DIP24 package
- 1.5kV isolation
- ITE safety approvals
- Single & dual outputs

JWE08

- 4:1 input
- DIP16 package
- 1.5kV isolation
- ITE safety approvals
- Single & dual outputs

JTF08

- 4:1 input
- DIP24 package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

ICZ09

- 2:1 input
- SIP8 package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

ITZ

- 4:1 input
- SIP8 package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

10W to 12W

JCA10

- 2:1 input
- 25.4 x 20.3mm DIP24
- 1.5kV basic isolation
- UL & TUV approved
- Single & dual outputs

JSM10

- 2:1 input
- 25.4 x 25.4mm package
- 1.5kV isolation
- Heatsink option
- Single & dual outputs

JCJ10

- 2:1 input
- DIP24 package
- 1.5kV isolation
- Short circuit protection
- Single & dual outputs

JTR10

- 4:1 input
- DIP16 package
- 1.5kV isolation
- ITE safety approvals
- Single & dual outputs

JWK10

- 4:1 input
- 25.4 x 25.4mm package
- 1.5kV isolation
- Heatsink option
- Single & dual outputs

JTF10/12

- 4:1 input
- DIP24 package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

JCG12

- 2:1 input
- DIP24 package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

15W

JCM15

- 2:1 input
- 25.4 x 25.4mm package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

JCG15

- 2:1 input
- DIP24 package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

JCK15

- 2:1 input
- 50.8 x 25.4mm package
- 1.6kV isolation, 3.5kV option
- Short circuit protection
- Single & dual outputs

JTK15

- 4:1 input
- 25.4 x 25.4mm package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

JWK15

- 4:1 input
- DIP24 package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

JTD15

- 4:1 input
- 40.6 x 25.4mm package
- 3kV isolation
- Remote On/Off
- Single & dual outputs

20W to 25W

JCM20

- 2:1 input
- 25.4 x 25.4mm package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

JCK20

- 2:1 input
- 50.8 x 25.4mm package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

JTK20

- 4:1 input
- 25.4 x 25.4mm package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

JTD20

- 4:1 input
- 40.6 x 25.4mm package
- 3kV isolation
- Remote On/Off
- Single & dual outputs

JSM25

- 2:1 input
- 25.4 x 25.4mm package
- 1.5kV isolation
- Heatsink option
- Single & dual outputs

JWK25

- 4:1 input
- 25.4 x 25.4mm package
- 1.5kV isolation
- Heatsink option
- Single & dual outputs

30W

JCM30

- 2:1 input
- 25.4 x 25.4mm package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

JCK30

- 2:1 input
- 50.8 x 25.4mm package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

JTK30

- 4:1 input
- 25.4 x 25.4mm package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

JTL30

- 4:1 input
- 50.8 x 25.4mm package
- 1.6kV isolation
- Remote On/Off
- Single, dual & triple O/P

40W to 60W

JCK40

- 2:1 input
- 50.8 x 25.4mm package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

JWL40

- 4:1 input
- 50.8 x 25.4mm package
- 1.5kV isolation
- Heatsink option
- Single & dual outputs

JTL40

- 4:1 input
- 50.8 x 50.8mm package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

JCK50

- 2:1 input
- 50.8 x 25.4mm package
- 1.6kV isolation
- Heatsink option
- Remote On/Off

JWL50

- 4:1 input
- 50.8 x 25.4mm package
- 1.5kV isolation
- Heatsink option
- Remote On/Off

JCK60

- 2:1 input
- 50.8 x 50.8mm package
- 1.6kV isolation
- Short circuit protection
- Remote On/Off

JTL60

- 4:1 input
- 50.8 x 25.4mm package
- 1.6kV isolation
- Remote On/Off
- Single & dual outputs

75W to 750W

QSB75-350

- 2:1 & 4:1 input
- ¼ & ½ brick packages
- 1.5kV isolation
- Remote On/Off
- Remote sense

QSC150

- 4:1 input
- ¼ brick package
- 2.25kV isolation
- Remote On/Off
- Remote sense

QSB400

- 4:1 input
- Full brick package
- 1.5kV isolation
- Remote On/Off
- Remote sense

QSB600

- 2:1 input
- Full brick package
- 1.5kV isolation
- Remote On/Off
- Remote sense

QHL75

- 180-450VDC input
- ¼ brick package
- 3kVAC isolation
- Remote On/Off
- Remote sense

QHL150/300

- 180-425VDC input
- ¼ & ½ brick packages
- 3kVAC isolation
- Remote On/Off
- Remote sense

QHL600

- 180-425VDC input
- Full brick package
- 3kVAC isolation
- Remote On/Off
- Current share

QHL750

- 200-425VDC input
- Full brick package
- 3kVAC isolation
- Remote On/Off
- Current share

(M) MOSFET & IGBT applications

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SMD

1W

IES01
- ±10% input
- Unregulated
- SMD8 package
- 1.5kV isolation, 3kV option
- Industry standard pinout

IAS01
- ±10% input
- Unregulated
- SMD10 package
- 1.5kV isolation, 3kV option
- Dual outputs

ISM01
- ±10% input
- Unregulated
- SMD14 package
- 4kVAC isolation
- 2 x MOPP at 250VAC

ISB01
- 2:1 input
- Regulated
- SMD14 package
- 1.5kV isolation
- Single & dual outputs

2W to 6W

IES02
- ±10% input
- Unregulated
- SMD8 package
- 1.5kV isolation, 3kV option
- Industry standard pinout

ISM02
- ±10% input
- Unregulated
- SMD16 package
- 4kVAC isolation
- 1 x MOPP at 300VAC

ISV02
- 4:1 input
- Regulated
- SMD8 package
- 3kV isolation
- Single & dual outputs

ISU02
- 4:1 input
- Regulated
- SMD14 package
- 1.5kV isolation
- Single & dual outputs

ISU03
- 4:1 input
- Regulated
- SMD14 package
- 1.5kV isolation
- Single & dual outputs

ISC03
- 4:1 input
- Regulated
- SMD16 package
- 1.5kV isolation
- Single & dual outputs

ISX06
- 4:1 input
- Regulated
- SMD16 package
- 1.5kV isolation
- Single & dual outputs

Medical

1W to 2W

ISM01
- ±10% input
- Unregulated
- SMD14 package
- 4kVAC isolation
- 2 x MOPP at 250VAC

IMA01
- ±10% input
- Unregulated
- SIP7 package
- 4kVAC isolation
- 1 x MOPP at 250VAC

IMB01
- ±10% input
- Unregulated
- SIP7 package
- 4kVAC isolation
- 2 x MOPP at 300VAC

IMM01
- 2:1 input
- Regulated
- SIP7 package
- 1.5kVAC isolation
- 1 x MOPP at 250VAC

ISM02
- ±10% input
- Unregulated
- SMD16 package
- 4kVAC isolation
- 1 x MOPP at 300VAC

IML02
- ±10% input
- Unregulated
- SIP7 package
- 4kVAC isolation
- 1 x MOPP at 300VAC

IMM02
- 2:1 input
- Regulated
- SIP8 package
- 1.5kVAC isolation
- 1 x MOPP at 250VAC

3W to 6W

JHL03
- 10-17VDC input
- 20-30VDC input
- DIP24 package
- 4kVAC isolation
- 2 x MOPP at 250VAC

JMR03
- 4:1 input range
- Regulated
- DIP16 package
- 5kVAC isolation
- 2 x MOPP at 250VAC

IMM05
- 2:1 input
- Regulated
- SIP9 package
- 1.5kVAC isolation
- 1 x MOPP at 250VAC

JHL06
- 10-17VDC input
- 20-30VDC input
- DIP24 package
- 4kVAC isolation
- 2 x MOPP at 250VAC

JHM06
- 2:1 input
- Regulated
- DIP24 package
- 4kVAC isolation
- 2 x MOPP at 250VAC

10W to 30W

JHM10
- 2:1 input
- Regulated
- DIP24 package
- 4kVAC isolation
- 2 x MOPP at 250VAC

JMR10
- 4:1 input
- Regulated
- DIP24 package
- 5kVAC isolation
- 2 x MOPP at 250VAC

JHM15
- 2:1 input
- Regulated
- 40.6 x 25.4mm package
- 4kVAC isolation
- 2 x MOPP at 250VAC

JHM20
- 2:1 input
- Regulated
- 50.8 x 25.4mm package
- 4kVAC isolation
- 2 x MOPP at 250VAC

JMR20
- 4:1 input
- Regulated
- 40.6 x 25.4 x 10.2mm
- 5kVAC isolation
- 2 x MOPP at 250VAC

JHM30
- 2:1 input
- Regulated
- 50.8 x 25.4 x 10.2mm
- 4kVAC isolation
- 2 x MOPP at 250VAC

Non-Isolated Switching Regulators

0.5 Amps

SVR05
- 0.5A regulator
- Input range up to 36VDC
- Remote On/Off
- SMD10 package
- ±10% output trim

STH05
- 0.5A regulator
- Input range up to 72VDC
- Low profile
- SMD10 package
- ±10% output trim

VR05
- 0.5A regulator
- Input range up to 36VDC
- High efficiency
- SIP3 package
- Short circuit protection

SRH05
- 0.5A regulator
- Input range up to 72VDC
- SIP3 package
- Short circuit Protection

1 to 2 Amps

SVR10
- 1.0A regulator
- Input range up to 36VDC
- Remote On/Off
- SMD10 package
- ±10% output trim

STS10
- 1.0A regulator
- Input range up to 36VDC
- Low profile
- SMD10 package
- ±10% output trim

VR10
- 1.0A regulator
- Input range up to 36VDC
- High efficiency
- SIP3 package
- Short circuit protection

VR20
- 2.0A regulator
- Input range up to 36VDC
- High efficiency
- SIP3 package
- Short circuit protection

Chassis/DIN Rail Mount

6W to 20W

DTE06
- 4:1 input
- DIN rail option
- 3kVDC isolation
- Remote On/Off
- Single & dual outputs

DTE10
- 4:1 input
- DIN rail option
- 3kVDC isolation
- Remote On/Off
- Single & dual outputs

DTJ15
- 4:1 input
- 3kVDC isolation
- ITE safety approvals
- ±10% output trim
- Single & dual Outputs

DDC15
- 4:1 input
- Low profile design
- 1.5kVDC isolation
- ITE safety approvals
- UL508 approved

DTJ20
- 4:1 input
- 3kVDC isolation
- ITE safety approvals
- ±10% output trim
- Single & dual outputs

DTE20
- 4:1 input
- DIN rail option
- 2.5kVDC isolation
- Remote On/Off
- ITE safety approvals

30W to 60W

DDC30
- 4:1 input
- Low profile design
- 1.5kVDC isolation
- ITE safety approvals
- UL508 approved

DDC40
- 3:1 input
- Low profile design
- 1.5kVDC isolation
- ITE safety approvals
- UL508 approved

DTE40
- 4:1 input
- DIN rail option
- 2.5kVDC isolation
- Remote On/Off
- ITE safety approvals

DTE60
- 4:1 input
- DIN rail option
- 2.5kVDC isolation
- Remote On/Off
- ITE safety approvals

Railway & Renewable Energy

3W to 50W

RDE03
- 4:1, 9-36VDC input
- 4:1, 18-75VDC input
- 4:1, 40-160VDC input
- EN50155 compliant
- Single & dual outputs

RDD08
- 5:1, 13-70VDC input
- 4:1, 42-176VDC input
- DIP24 package
- EN50155 compliant
- Single & dual outputs

RDC20/30
- 3:1, 36-140VDC input
- 3:1, 55-176VDC input
- 50.8 x 25.4mm package
- EN50155 compliant
- Single & dual outputs

RDE20
- 5:1, 13-70VDC input
- 4:1, 42-176VDC input
- 25.4 x 25.4mm package
- EN50155 compliant
- Single & dual outputs

RDF25
- 10:1, 16-160VDC
- 50.8 x 25.4mm package
- 3kVDC isolation
- EN50155 compliant
- Remote On/Off

RDC40
- 3:1, 36-140VDC input
- 3:1, 55-176VDC input
- 50.8 x 40.6mm package
- EN50155 compliant
- Single & Dual Outputs

RDF50
- 12:1, 14-160VDC input
- ¼ brick package
- 3kVDC isolation
- EN50155 compliant
- Baseplate-cooled

75W to 600W

RCQ75
- 2:1, 43-101VDC input
- 3:1, 66-160VDC input
- ¼ brick package
- EN50155 compliant
- Remote On/Off

RDE75
- 8:1, 9-75VDC input
- ¼ brick package
- EN50155 compliant
- Remote On/Off
- Remote sense

RDF150
- 12:1, 14-160VDC
- ½ brick package
- 3kVAC isolation
- EN50155 compliant
- Remote On/Off

RDQ150
- 3:1, 66-160VDC input
- ½ brick package
- EN50155 compliant
- Remote On/Off
- Remote sense

QSC150
- 4:1, 9-36VDC input
- 4:1, 18-75VDC input
- 4:1, 43-160VDC input
- ¼ brick package
- EN50155 compliant

RDF200
- 12:1, 16-160VDC
- ½ brick package
- 3kVAC isolation
- EN50155 compliant
- Remote On/Off

RDH300/600
- 4:1, 43-160VDC input
- ½ & full brick packages
- EN50155 compliant
- Remote On/Off
- Remote sense

Medical version available

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