



DPX15W Series

Single and Dual Output 15W Din Rail Mount
DC-DC Converters

- Single and dual output
- Meet EN55022 Class B
- Input fuse protection
- Input reverse polarity protection
- Input in-rush current protection
- Overload and short circuit protection
- Over voltage protection
- Reliable snap-on for DIN rail TS-35/7.5 or TS-35/15
- I/O-isolation 1600 VDC
- Output DC-OK indicator

Key Market Segments & Applications

Communication Systems, Industry Control Systems
Factory Automation, Semiconductor Equipment

DPX15W Features and Benefits

Features

- CE Approvals
- Wide Range Input

Benefits

- Easier System Approvals
- Less Parts to Inventory

Specifications

ITEMS	DPX15W	
Rated Input voltage range	24V nominal input 9.5-36VDC	48V nominal input 18-75VDC
Switching Frequency	400kHz, typ	
Maximum Input Current	See Table	
Input Fuse	24V input, 6A Fuse	48V input, 4A fuse
Max Output Power (W)	See Table	
Voltage Accuracy	Single/Dual $\pm 1.2\%$ / Single (3.3V) $\pm 2.0\%$	
Line Regulation (LL to HL at full load)	Single $\pm 0.2\%$ / Dual 0.5%	
Ripple and Noise	20MHz bandwidth	See table
Start up time (Nominal Vin and constant resistive load)	Power up 100mS, typ	
Remote on/off (option) (Note 2)	POSITIVE logic: ON: Open or 3-12V, OFF Short or <1.2V NEGATIVE logic: ON: Short or <1.2V, OFF Open or 3-12V	
Efficiency	See Table	
Over Current Protection, Factory Set	Maximum, 150% of full load	
Short Circuit Protection (Note 3)	Hiccup, auto recovery	
Overvoltage Protection	3.3V output 5V output 12V output 15 output	3.9V 6.2V 15V 18V
Operating Temperature	-40°C ~ 85°C (without derating) 85°C ~ 95°C (with derating - see curve)	
Storage Temperature	-40°C ~ 105°C	
Thermal Shock	MIL-STD-810F	
Relative Humidity (non condensing)	5% to 95% RH	
Transient Response (25% step load change)	250µS	
Isolation Voltage (Min)	1600Vdc	
Isolation Resistance	$10^9 \Omega$	
Isolation Capacitance (Max)	4000 pF	
MTBF BELLCORE TR-NWT-000332 (Note 1)	147,200 hrs	
Vibration	MIL-STD-810F	
Conducted and Radiated Emissions	EN55022, Class B	
Immunity	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6 Perf. Criteria A	
Safety	CE	
Size (H x W x D)	57.6 x 24.5 x 125.0 mm	
Weight	147.5g	
Connector	Screw Terminal	
Cooling	Convection	
Front Panel LED	Output DC good	
Warranty yrs	2	

Notes: See page 2

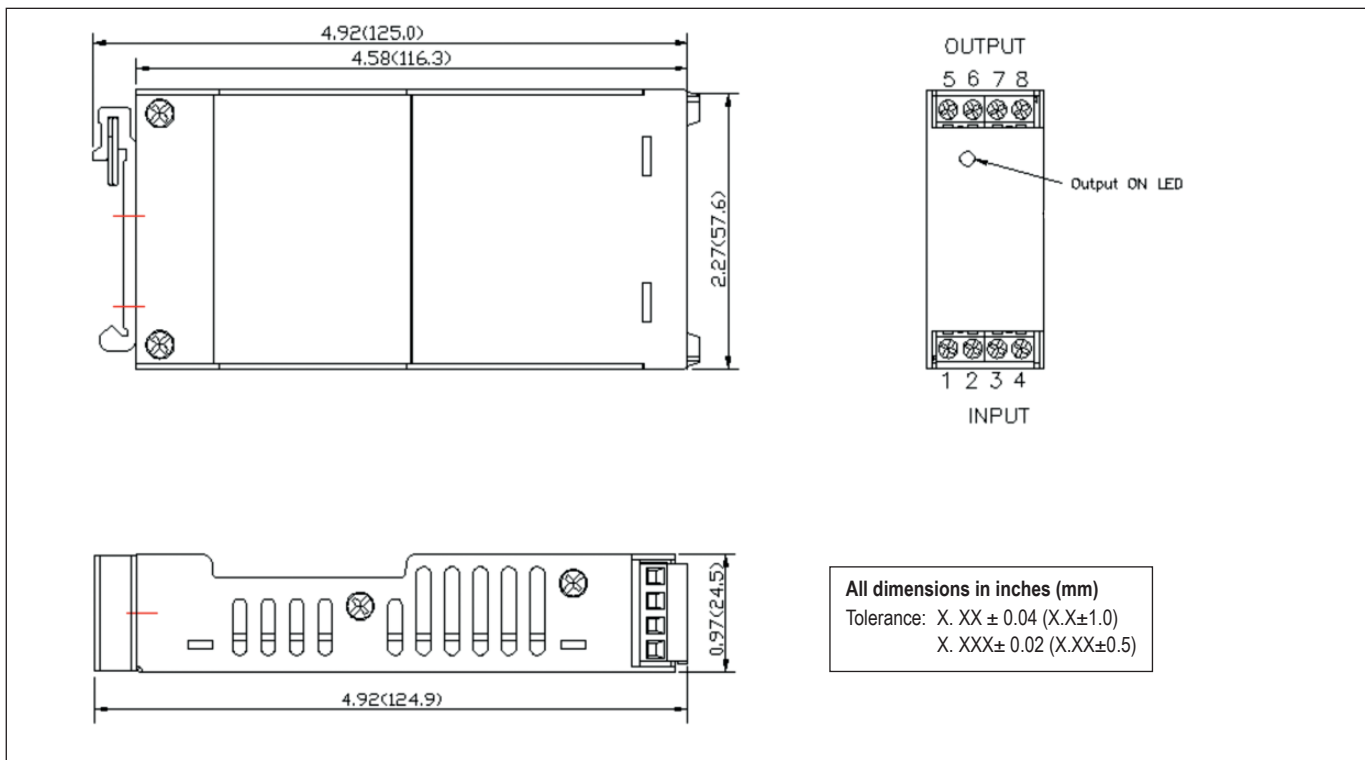
Model Selector

Model	Input Range	Output Voltage	Output Current Min Load	Output Current Full Load	Output (3) Ripple & Noise	Input Current No Load (4)	Input Current Full Load (5)	Eff % (3)	Capacitor Load Max (6)
DPX15-24WS3P3	9.5 - 36 VDC	3.3 VDC	0mA	4500mA	50mVp-p	52mA	773mA	84	147000μF
DPX15-24WS05	9.5 - 36 VDC	5 VDC	0mA	3000mA	50mVp-p	67mA	772mA	85	7200μF
DPX15-24WS5P1	9.5 - 36 VDC	5.1 VDC	0mA	3000mA	50mVp-p	67mA	787mA	85	7200μF
DPX15-24WS12	9.5 - 36 VDC	12 VDC	0mA	1250mA	75mVp-p	26mA	772mA	85	1250μF
DPX15-24WS15	9.5 - 36 VDC	15 VDC	0mA	1000mA	75mVp-p	26mA	772mA	85	800μF
DPX15-24WD05	9.5 - 36 VDC	±5 VDC	0mA	±1500mA	75mVp-p	57mA	772mA	85	±3600μF
DPX15-24WD12	9.5 - 36 VDC	±12 VDC	0mA	±625mA	75mVp-p	35mA	762mA	86	±625μF
DPX15-24WD15	9.5 - 36 VDC	±15 VDC	0mA	±500mA	75mVp-p	35mA	762mA	86	±400μF
DPX15-48WS3P3	18 - 75 VDC	3.3 VDC	0mA	4500mA	50mVp-p	37mA	387mA	84	14700μF
DPX15-48WS05	18 - 75 VDC	5 VDC	0mA	3000mA	50mVp-p	38mA	381mA	86	7200μF
DPX15-48WS5P1	18 - 75 VDC	5.1 VDC	0mA	3000mA	50mVp-p	38mA	389mA	86	7200μF
DPX15-48WS12	18 - 75 VDC	12 VDC	0mA	1250mA	75mVp-p	18mA	386mA	85	1250μF
DPX15-48WS15	18 - 75 VDC	15 VDC	0mA	1000mA	75mVp-p	18mA	386mA	85	800μF
DPX15-48WD05	18 - 75 VDC	± 5 VDC	0mA	± 1500mA	75mVp-p	37mA	381mA	86	±3600μF
DPX15-48WD12	18 - 75 VDC	± 12VDC	0mA	± 625mA	75mVp-p	20mA	381mA	86	±625μF
DPX15-48WD15	18 - 75 VDC	± 15 VDC	0mA	± 500mA	75mVp-p	20mA	381mA	86	±400μF

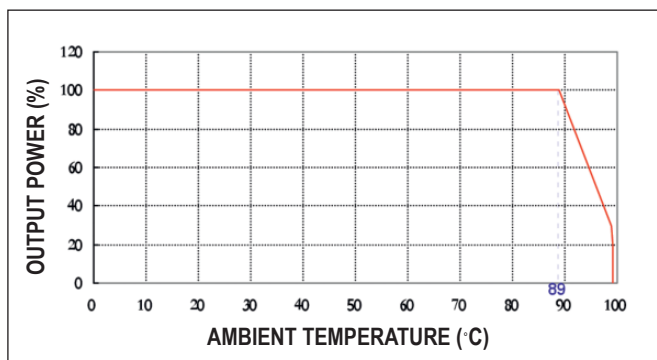
Notes see above

- BELLCORE TR-NWT-000332. Case I: 50% Stress, Temperature at 40°C. MIL-HDBK-217F Notice2 @Ta=25°C, Full load(Ground, Benign, controlled environment).
- The ON/OFF control pin voltage is referenced to -Vin. Positive logic standard To orderNegative logic ON/OFF control add the suffix-N (Ex:DPX15-48WS05-N)
- Typical value at nominal input voltage and full load.
- Typical value at nominal input voltage and no load.
- Maximum value at nominal input voltage and full load.
- Test by minimum Vin and constant resistive load.

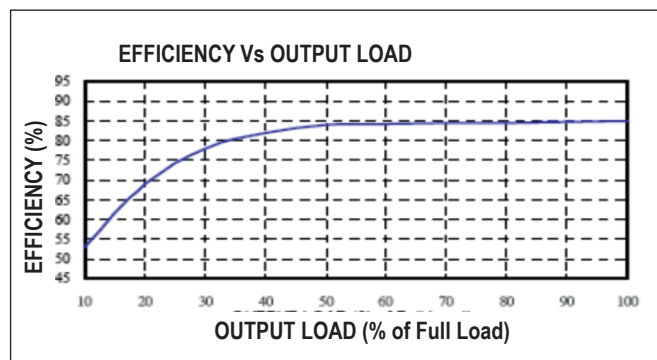
Outline Drawing DPX15W Series



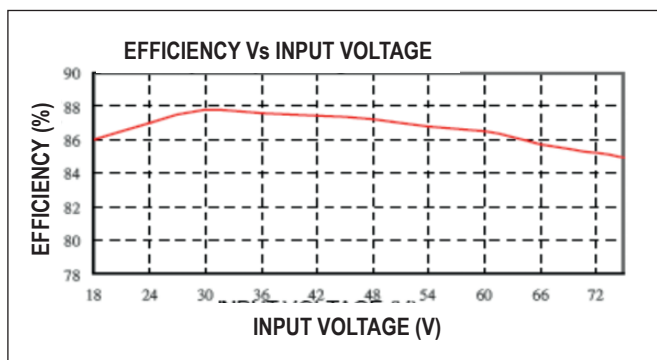
Derating Curve DPX15-48WS05



Efficiency / Load Curve DPX15-48WS05



Efficiency / Input Curve DPX15-48WS05



Pinout		
PIN	Single	Dual
1	CTRL	CTRL
2	- Input	- Input
3	- Input	- Input
4	+ Input	+ Input
5	NC	NC
6	- Output	- Output
7	+ Output	Common
8	NC	+ Output

NC: No connection

Screw terminals - wire range from 14 to 18 AWG

Options

Option	Suffix
Negative Logic Remote ON/OFF	- N

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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