

**Input Ranges :**  
**9-75 VDC**

**Output Output:**  
**Single Output**

**3.3V - 24V**

**Bipolar Output**

**±5.0V, ±12V, ±15V**

**Dual Output**

**+5.0V / +12V**

**Triple Output**

**+5.0V / ±12V**

**+5.0V / ±15V**

**Output Power:**  
**6.6 to 15 W**



The **D** series DC-DC converters feature high power density, high efficiency and excellent line & load regulation. Using innovative design technique, state-of-the-art Current Mode PWM control, and Surface Mount packaging & manufacturing technology, the D series provides up to 15 watts of well regulated power in a encapsulated 1.0" x 2.0" x 0.40" metal case with six-sided EMI/RFI shielding. Automatic feed forward compensation, pulse-by-pulse current limiting, and output short circuit protection are standard for all models.

These converters are designed for wide input range telecommunications, industrial and instrument applications. The wide input range (2:1 & 4:1) is ideal for battery or unregulated input applications.

No external components are needed for normal operation. Low ESR capacitors are used to minimize the conductive noise. This package is ideal for all I/O board system and distributed DC power configurations.

**FEATURES**

**General:**

- Small footprint : 1.0" x 2.0"
- Current-Mode Control
- Input/Output Isolation
- Input Voltage from 9 to 75Vdc
- 2:1 & 4:1 Input Voltage Range
- High conversion efficiency: 80%
- Line & load regulation to ±1.0%
- Fixed operating frequency
- Six-Sided Shielding

**Isolation:**

- Isolation Voltage >500V

**APPLICATIONS**

- PoE (Power over Ethernet)
- Distributed Power Systems
- Workstations
- Computer Equipment
- Communications Equipment

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**1. Absolute Maximum Ratings**

Stresses in excess of the absolute maximum ratings can cause performance degradation, adversely effect longterm reliability, and cause permanent damage to the device.

Parameter	Conditions / Description	Min	Max	Units
<b>Input Voltage</b>				
Continuous	12	-0.3	20	Vdc
	24	-0.3	38	Vdc
	48	-0.3	78	Vdc
	W24	-0.3	38	Vdc
	W48	-0.3	78	Vdc
Transient (100mSec.)	12	-0.3	22	Vdc
	24	-0.3	40	Vdc
	48	-0.3	80	Vdc
	W-24	-0.3	40	Vdc
	W-48	-0.3	80	Vdc
<b>Operating Temperature</b>	All models, base plate temperature	-40	+100	°C
<b>Storage Temperature</b>	<b>Ambient</b>	-55	+105	°C
<b>Isolation Voltage</b>	Input to Output		+700	Vdc

**2. Input Specifications**

Parameter	Conditions / Description	Min	Nom	Max	Units
<b>Input Voltage</b>					
Voltage Range (Continuous)	12	9	12	18	Vdc
	24	18	24	36	Vdc
	48	36	48	75	Vdc
	W-24	10	24	36	Vdc
	W-48	18	48	75	Vdc

**3. Enable (On-Off Control)**

Parameter	Conditions / Description	Min	Nom	Max	Units
<b>Enable Pin</b>					
Open Circuit Voltage			5		Vdc
Source Current				1	mA
<b>Positive Logic</b>	<b>Standard</b>				
On-Control	Logic High or Floating	5.0		18	Vdc
Off-Control		-0.5		1.8	Vdc
<b>Negative Logic</b>	<b>Not Available</b>				

\* Enable pin can be left floating if not used.

**4. Output Specifications**

Parameter	Conditions / Description	Min	Nom	Max	Units
Voltage Accuracy	Please see table				%
Output Current	Please see table				Adc
Output Trim	Not Available				%Vout
Over Voltage Protection	Not available				Vdc
Line Regulation				±1.0	%Vout
Load Regulation				±1.0	%Vout
Transient Respoonse	50% ± 25% step load change		200		µSec.
Ripple & Noise	Please see table				mVp-p
Switching Frequency			200		KHz

**5. Output Trim**

Parameter	Conditions / Description	Min	Nom	Max	Units
<b>Negative Trim</b>	<b>Standard</b>				
Trim Up	Trim Pin to (-)Vout			10	%Vdc
Trim Down	Trim Pin to (+)Vout	10			%Vdc
<b>Positive Trim</b>	<b>Not Available</b>				

\* Trim pin can be left floating if not used

**6. Environmental and Mechanical Specifications**

Parameter	Conditions / Description	Min	Nom	Max	Units
Operating Temperature	Case Temperature	-25		+95	°C
Storage Temperature		-40		+105	°C
Temperature Coefficient				±0.02	%/°C
Shock	Halfsine wave, 3 axes	50			g
Sinusoidal Vibration	GR-63-CORE, Section 5.4.2	1			g
Humidity	Relative Humidity, Non-Condensing			95	%R.H.
Weight			1.0 (28)		Oz (g)
MTBF (calculated)	Bellcore TR-NWT-000332 method 1 - parts count	0.5			MHrs

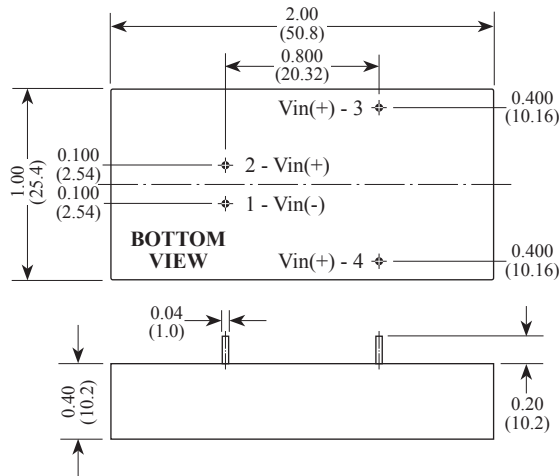
**7. Isolation Specifications**

Parameter	Conditions / Description	Min	Nom	Max	Units
Isolation Voltage					
Input to Output		500			Vdc
I/O to Case		300			Vdc
Isolation Resistance	Input to Output	10			MΩ
Isolation Capacitance	Input to Output		3		nF

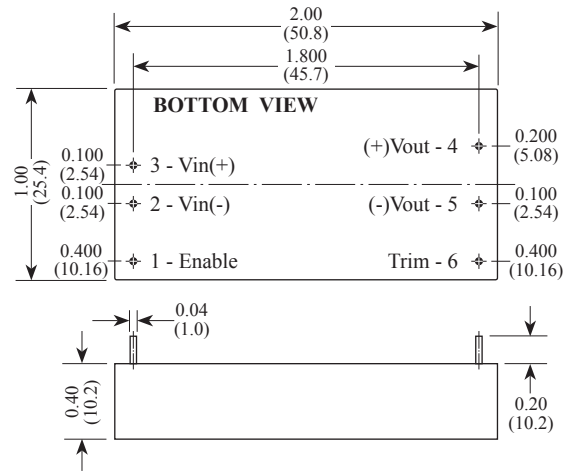
INPUT		OUTPUT								EFF. (typ.)	MODEL NO.
Nominal (Range)	Max. Output Power	Voltage (V)			Current (A)		Ripple & Noise		Over Load Protection		
		Set Point	Min.*	Max.*	Min.	Max.	Peak-Peak	R.M.S.			
12 (9 - 18)	6.6W	3.30	3.20	3.40	0.2	2.0	50mV	10mV	Pulse by Pulse Current Limiting	78%	D10S1203
	10W		3.20	3.40	0.3	3.0	50mV	10mV		78%	D15S1203
	10W	5.00	4.90	5.10	0.2	2.0	75mV	15mV		82%	D10S1205
	15W		4.90	5.10	0.3	3.0	75mV	15mV		82%	D15S1205
	10W	12.0	11.88	12.12	0.08	0.85	100mV	20mV		84%	D10S1212
	15W		11.88	12.12	0.12	1.25	100mV	20mV		84%	D15S1212
	10W	15.0	14.85	15.15	0.06	0.65	120mV	25mV		84%	D10S1215
	15W		14.85	15.15	0.1	1.0	120mV	25mV		84%	D15S1215
	10W	24.0	23.76	24.24	0.04	0.42	200mV	35mV		84%	D10S1224
	15W		23.76	24.24	0.06	0.63	200mV	35mV		84%	D15S1224
24 (18 - 36)	6.6W	3.30	3.20	3.40	0.2	2.0	50mV	10mV	78%	D10S2403	
	10W		3.20	3.40	0.3	3.0	50mV	10mV	78%	D15S2403	
	10W	5.00	4.90	5.10	0.2	2.0	75mV	15mV	82%	D10S2405	
	15W		4.90	5.10	0.3	3.0	75mV	15mV	82%	D15S2405	
	10W	12.0	11.88	12.12	0.08	0.85	100mV	20mV	84%	D10S2412	
	15W		11.88	12.12	0.12	1.25	100mV	20mV	84%	D15S2412	
	10W	15.0	14.85	15.15	0.06	0.65	120mV	25mV	84%	D10S2415	
	15W		14.85	15.15	0.1	1.0	120mV	25mV	84%	D15S2415	
	10W	24.0	23.76	24.24	0.04	0.42	200mV	35mV	84%	D10S2424	
	15W		23.76	24.24	0.06	0.63	200mV	35mV	84%	D15S2424	
48 (36 - 75)	6.6W	3.30	3.20	3.40	0.2	2.0	50mV	10mV	78%	D10S4803	
	10W		3.20	3.40	0.3	3.0	50mV	10mV	78%	D15S4803	
	10W	5.00	4.90	5.10	0.2	2.0	75mV	15mV	82%	D10S4805	
	15W		4.90	5.10	0.3	3.0	75mV	15mV	82%	D15S4805	
	10W	12.0	11.88	12.12	0.08	0.85	100mV	20mV	84%	D10S4812	
	15W		11.88	12.12	0.12	1.25	100mV	20mV	84%	D15S4812	
	10W	15.0	14.85	15.15	0.06	0.65	120mV	25mV	84%	D10S4815	
	15W		14.85	15.15	0.1	1.0	120mV	25mV	84%	D15S4815	
	10W	24.0	23.76	24.24	0.04	0.42	200mV	35mV	84%	D10S4824	
	15W		23.76	24.24	0.06	0.63	200mV	35mV	84%	D15S4824	
W-24 (10 - 36)	6.6W	3.30	3.20	3.40	0.2	2.0	50mV	10mV	76%	DW10S2403	
	10W	5.00	4.90	5.10	0.2	2.0	75mV	15mV	80%	DW10S2405	
	10W	12.0	11.88	12.12	0.08	0.85	100mV	20mV	82%	DW10S2412	
	10W	15.0	14.85	15.15	0.06	0.65	120mV	25mV	82%	DW10S2415	
	10W	24.0	23.76	24.24	0.04	0.42	200mV	35mV	82%	DW10S2424	
W-48 (20 - 75)	6.6W	3.30	3.20	3.40	0.2	2.0	50mV	10mV	76%	DW10S4803	
	10W	5.00	4.90	5.10	0.2	2.0	75mV	15mV	80%	DW10S4805	
	10W	12.0	11.88	12.12	0.08	0.85	100mV	20mV	82%	DW10S4812	
	10W	15.0	14.85	15.15	0.06	0.65	120mV	25mV	82%	DW10S4815	
	10W	24.0	23.76	24.24	0.04	0.42	200mV	35mV	82%	DW10S4824	

\* Combined Line & Load Regulation.

**Standard Pin-Out**



**Alternate Pin-Out**



**Product Numbering System & Selection Guide**

Series No.	Output Power	No Output	Input Voltage	Output Voltage	Options
<b>D</b>	<b>10</b> : 10W <b>15</b> : 15W	<b>S</b> : Single	<b>12</b> : 9-18V <b>24</b> : 18-36V <b>48</b> : 36-75V	<b>03</b> : 3.3V <b>05</b> : 5.0V <b>12</b> : 12V <b>15</b> : 15V <b>24</b> : 24V	<b>E</b> : Alternate Pin-Out
<b>DW</b>			<b>24</b> : 10-36V	<b>15</b> : 15V	
<b>DW</b>			<b>48</b> : 20-75V	<b>24</b> : 24V	

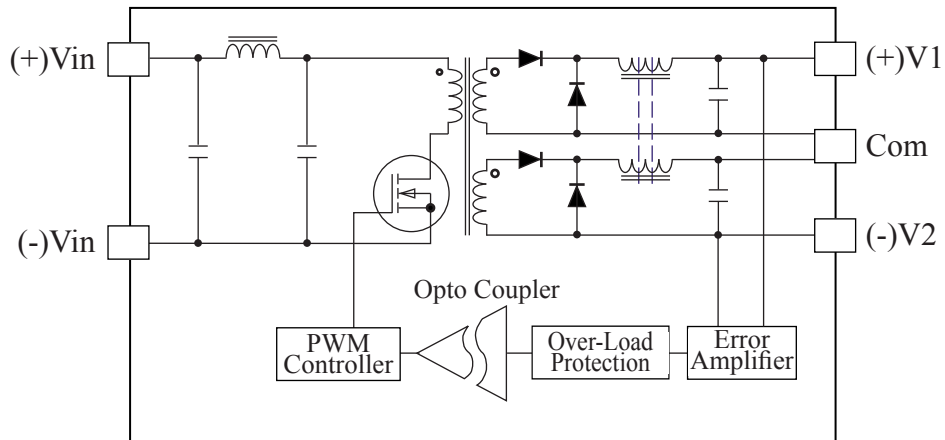
INPUT		OUTPUT										Short Circuit Protection	Over Temp. Protect	EFF. (typ.)	MODEL NO.
Nominal (Range)	Max Output Power	Voltage (V)				Current (A)			Ripple & Noise						
		#	Set Point	Min.*	Max.*	#	Min.	Max.	Peak-Peak	R.M.S.					
12 (9-18)	10W	±5.0V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.0	75mV	15mV	Pulse by Pulse Current Limiting	Not Available	82%	D10D1205
			-V2	-5.00	-4.80	+5.20	-12	-0.1	-1.0	75mV	15mV			82%	D15D1205
	15W	±5.0V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.5	75mV	15mV			84%	D10D1212
			-V2	-5.00	-4.80	+5.20	-12	-0.1	-1.5	75mV	15mV			84%	D15D1212
	10W	±12V	+V1	+12.00	+11.90	+12.10	+11	+0.04	+0.42	100mV	20mV			84%	D10D1215
			-V2	-12.00	-11.80	+12.20	-12	-0.04	-0.42	100mV	20mV			84%	D15D1215
	15W	±12V	+V1	+12.00	+11.90	+12.10	+11	+0.06	+0.63	100mV	20mV			84%	D10D1215
			-V2	-12.00	-11.80	+12.20	-12	-0.06	-0.63	100mV	20mV			84%	D15D1215
	10W	±15V	+V1	+15.00	+14.85	+15.15	+11	+0.03	+0.34	120mV	25mV			84%	D10D1215
			-V2	-15.00	-14.70	-15.30	-12	-0.03	-0.34	120mV	25mV			84%	D15D1215
	15W	±15V	+V1	+15.00	+14.85	+15.15	+11	+0.05	+0.5	120mV	25mV			84%	D10D1215
			-V2	-15.00	-14.70	-15.30	-12	-0.05	+0.5	120mV	25mV			84%	D15D1215
24 (18-36)	10W	±5.0V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.0	75mV	15mV	84%	D10D2405		
			-V2	-5.00	-4.80	+5.20	-12	-0.1	-1.0	75mV	15mV	84%	D15D2405		
	15W	±5.0V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.5	75mV	15mV	86%	D10D2412		
			-V2	-5.00	-4.80	+5.20	-12	-0.1	-1.5	75mV	15mV	86%	D15D2412		
	10W	±12V	+V1	+12.00	+11.90	+12.10	+11	+0.04	+0.42	100mV	20mV	86%	D10D2415		
			-V2	-12.00	-11.80	+12.20	-12	-0.04	-0.42	100mV	20mV	86%	D15D2415		
	15W	±12V	+V1	+12.00	+11.90	+12.10	+11	+0.06	+0.63	100mV	20mV	86%	D10D2415		
			-V2	-12.00	-11.80	+12.20	-12	-0.06	-0.63	100mV	20mV	86%	D15D2415		
	10W	±15V	+V1	+15.00	+14.85	+15.15	+11	+0.03	+0.34	120mV	25mV	86%	D10D2415		
			-V2	-15.00	-14.70	-15.30	-12	-0.03	-0.34	120mV	25mV	86%	D15D2415		
	15W	±15V	+V1	+15.00	+14.85	+15.15	+11	+0.05	+0.5	120mV	25mV	86%	D10D2415		
			-V2	-15.00	-14.70	-15.30	-12	-0.05	+0.5	120mV	25mV	86%	D15D2415		
48 (36 - 75)	10W	±5.0V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.0	75mV	15mV	84%	D10D4805		
			-V2	-5.00	-4.80	+5.20	-12	-0.1	-1.0	75mV	15mV	84%	D15D4805		
	15W	±5.0V	+V1	+5.00	+4.90	+5.10	+11	+0.15	+1.5	75mV	15mV	86%	D10D4812		
			-V2	-5.00	-4.80	+5.20	-12	-0.15	-1.5	75mV	15mV	86%	D15D4812		
	10W	±12V	+V1	+12.00	+11.90	+12.10	+11	+0.04	+0.42	100mV	20mV	86%	D10D4815		
			-V2	-12.00	-11.80	+12.20	-12	-0.04	-0.42	100mV	20mV	86%	D15D4815		
	15W	±12V	+V1	+12.00	+11.90	+12.10	+11	+0.06	+0.63	100mV	20mV	86%	D10D4815		
			-V2	-12.00	-11.80	+12.20	-12	-0.06	-0.63	100mV	20mV	86%	D15D4815		
	10W	±15V	+V1	+15.00	+14.85	+15.15	+11	+0.03	+0.34	120mV	25mV	80%	DW10D2405		
			-V2	-15.00	-14.70	-15.30	-12	-0.03	-0.34	120mV	25mV	82%	DW10D2412		
	15W	±15V	+V1	+15.00	+14.85	+15.15	+11	+0.03	+0.34	120mV	25mV	82%	DW10D2415		
			-V2	-15.00	-14.70	-15.30	-12	-0.03	-0.34	120mV	25mV	82%	DW10D4805		
48W (20-75)	10W	±5.0V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.0	75mV	15mV	84%	DW10D4812		
			-V2	-5.00	-4.80	+5.20	-12	-0.1	-1.0	75mV	15mV	84%	DW10D4815		
	10W	±12V	+V1	+12.00	+11.90	+12.10	+11	+0.04	+0.42	100mV	20mV	84%	DW10D4812		
			-V2	-12.00	-11.80	+12.20	-12	-0.04	-0.42	100mV	20mV	84%	DW10D4815		
	10W	±15V	+V1	+15.00	+14.85	+15.15	+11	+0.03	+0.34	120mV	25mV	84%	DW10D4815		
			-V2	-15.00	-14.70	-15.30	-12	-0.03	-0.34	120mV	25mV	84%	DW10D4815		

\* Combined Line & Load (Low Line to High Line, Min. Load to Full Load)

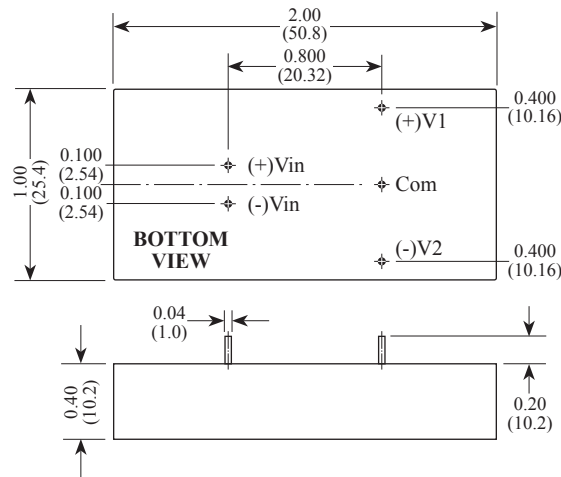
**Product Numbering System & Selection Guide**

<b>D</b>	<b>10</b>	<b>D</b>	<b>24</b>	<b>05</b>
Series No.	Output Power	No Output	Input Voltage	Output Voltage
D	10 : 10W 15 : 15W	D : Dual	12 : 9-18V 24 : 18-36V 48 : 36-75V	05 : ±5.0V 12 : ±12V 15 : ±15V
DW			24 : 10-36V 48 : 20-75V	

**BLOCK DIAGRAM (Bipolar Output)**



**Standard Pin-Out (Bipolar Output)**

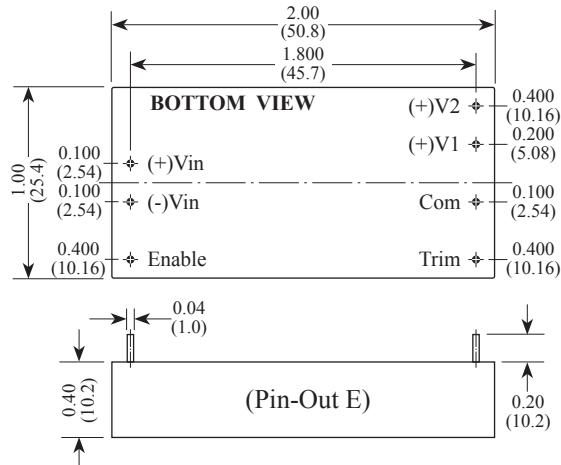
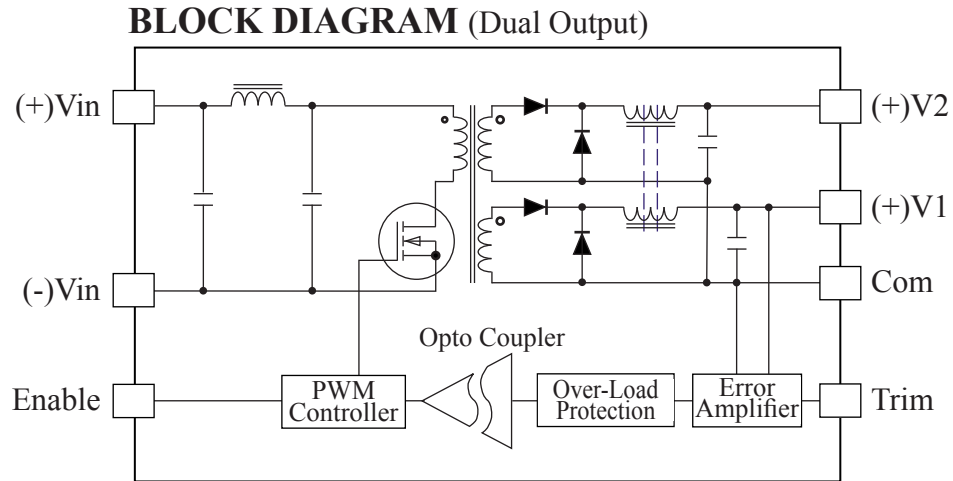


INPUT		OUTPUT										Short Circuit Protection	Over Temp. Protect	EFF. (typ.)	MODEL NO.						
Nominal (Range)	Max Output Power	Voltage (V)					Current (A)			Ripple & Noise											
		#	Set Point	Min.*	Max.*	#	Min.	Max.	Peak-Peak	R.M.S.											
12 (9-18)	10W	+5V	+V1	+5.00	+4.90	+5.10	+I1	+0.1	+1.5	75mV	15mV	Pulse by Pulse Current Limiting	Not Available	82%	D10D1205+12E						
		+12V	+V2	+12.00	+11.40	+13.0	+I2	+0.04	+0.42	120mV	25mV			82%	D15D1205+12E						
	15W	+5V	+V1	+5.00	+4.90	+5.10	+I1	+0.15	+2.0	75mV	15mV			84%	D10D2405+12E						
		+12V	+V2	+12.00	+11.40	+13.0	+I2	+0.06	+0.63	120mV	25mV			84%	D15D2405+12E						
24 (18-36)	10W	+5V	+V1	+5.00	+4.90	+5.10	+I1	+0.1	+1.5	75mV	15mV			Pulse by Pulse Current Limiting	Not Available	84%	D10D2405+12E				
		+12V	+V2	+12.00	+11.40	+13.0	+I2	+0.04	+0.42	120mV	25mV					84%	D15D2405+12E				
	15W	+5V	+V1	+5.00	+4.90	+5.10	+I1	+0.15	+2.0	75mV	15mV					84%	D10D4805+12E				
		+12V	+V2	+12.00	+11.40	+13.0	+I2	+0.06	+0.63	120mV	25mV					84%	D15D4805+12E				
W-24 (10-36)	10W	+5V	+V1	+5.00	+4.90	+5.10	+I1	+0.1	+1.5	75mV	15mV					Pulse by Pulse Current Limiting	Not Available	80%	DW10D2405+12E		
		+12V	+V2	+12.00	+11.40	+13.0	+I2	+0.04	+0.42	120mV	25mV							82%	DW10D4805+12E		
W-48 (20-75)	10W	+5V	+V1	+5.00	+4.90	+5.10	+I1	+0.1	+1.5	75mV	15mV							Pulse by Pulse Current Limiting	Not Available	80%	DW10D2405+12E
		+12V	+V2	+12.00	+11.40	+13.0	+I2	+0.04	+0.42	120mV	25mV									82%	DW10D4805+12E

\* Combined Line & Load (Low Line to High Line, Min. Load to Full Load)

**Product Numbering System & Selection Guide**

<b>D</b>	<b>10</b>	<b>D</b>	<b>24</b>	<b>05</b>	+	<b>12</b>	<b>E</b>
Series No.	Output Power*	No Output	Input Voltage	+V1 Output	+V2 Outputs	Suffix	
<b>D</b>	<b>10</b> : 10W <b>15</b> : 15W	<b>D</b> : Dual	<b>12</b> : 9-18V <b>24</b> : 18-36V <b>48</b> : 36-75V	<b>05</b> : 5.0V	<b>12</b> : +12V	E:	Required
<b>DW</b>			<b>24</b> : 10-36V				
<b>DW</b>			<b>48</b> : 20-75V				



INPUT		OUTPUT										Short Circuit Protection	Over Temp. Shutdown /Recover	EFF. (typ.)	MODEL NO.
Nominal (Range)	Max Output Power	Voltage (V)				Current (A)			Ripple & Noise						
		#	Set Point	Min.*	Max.*	#	Min.	Max.	Peak-Peak	R.M.S.					
12 (9 - 18)	10W	+5.0V ±12V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.0	75mV	15mV	Pulse by Pulse Current Limiting	Not Available	82%	D10T1205-12
			+V3	+12.0	+11.4	+13.0	+12	+0.02	+0.21	100mV	25mV				
			-V2	-12.0	-11.4	-13.0	+13	-0.02	-0.21	100mV	25mV				
	15W	+5.0V ±12V	+V1	+5.00	+4.90	+5.10	+11	+0.15	+1.5	75mV	15mV			82%	D15T1205-12
			+V3	+12.0	+11.4	+13.0	+12	+0.02	+0.32	100mV	25mV				
			-V2	-12.0	-11.4	-13.0	+13	-0.02	-0.32	100mV	25mV				
	10W	+5.0V ±15V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.0	75mV	15mV			82%	D10T1205-15
			+V3	+15.0	+14.4	+16.0	+12	+0.02	+0.17	120mV	30mV				
			-V2	-15.0	-14.4	-16.0	+13	-0.02	-0.17	120mV	30mV				
	15W	+5.0V ±15V	+V1	+5.00	+4.90	+5.10	+11	+0.15	+1.5	75mV	15mV			82%	D15T1205-15
			+V3	+15.0	+14.4	+16.0	+12	+0.025	+0.25	120mV	30mV				
			-V2	-15.0	-14.4	-16.0	+13	-0.025	-0.25	120mV	30mV				
24 (18 - 36)	10W	+5.0V ±12V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.0	75mV	15mV	Pulse by Pulse Current Limiting	Not Available	83%	D10T2405-12
			+V3	+12.0	+11.4	+13.0	+12	+0.02	+0.21	100mV	25mV				
			-V2	-12.0	-11.4	-13.0	+13	-0.02	-0.21	100mV	25mV				
	15W	+5.0V ±12V	+V1	+5.00	+4.90	+5.10	+11	+0.15	+1.5	75mV	15mV			83%	D15T2405-12
			+V3	+12.0	+11.4	+13.0	+12	+0.02	+0.32	100mV	25mV				
			-V2	-12.0	-11.4	-13.0	+13	-0.02	-0.32	100mV	25mV				
	10W	+5.0V ±15V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.0	75mV	15mV			83%	D10T2405-15
			+V3	+15.0	+14.4	+16.0	+12	+0.02	+0.17	120mV	30mV				
			-V2	-15.0	-14.4	-16.0	+13	-0.02	-0.17	120mV	30mV				
	15W	+5.0V ±15V	+V1	+5.00	+4.90	+5.10	+11	+0.15	+1.5	75mV	15mV			83%	D15T2405-15
			+V3	+15.0	+14.4	+16.0	+12	+0.025	+0.25	120mV	30mV				
			-V2	-15.0	-14.4	-16.0	+13	-0.025	-0.25	120mV	30mV				
48 (36 - 75)	10W	+5.0V ±12V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.0	75mV	15mV	Pulse by Pulse Current Limiting	Not Available	83%	D10T4805-12
			+V3	+12.0	+11.4	+13.0	+12	+0.02	+0.21	100mV	25mV				
			-V2	-12.0	-11.4	-13.0	+13	-0.02	-0.21	100mV	25mV				
	15W	+5.0V ±12V	+V1	+5.00	+4.90	+5.10	+11	+0.15	+1.5	75mV	15mV			83%	D15T4805-12
			+V3	+12.0	+11.4	+13.0	+12	+0.02	+0.32	100mV	25mV				
			-V2	-12.0	-11.4	-13.0	+13	-0.02	-0.32	100mV	25mV				
	10W	+5.0V ±15V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.0	75mV	15mV			83%	D10T4805-15
			+V3	+15.0	+14.4	+16.0	+12	+0.02	+0.17	120mV	30mV				
			-V2	-15.0	-14.4	-16.0	+13	-0.02	-0.17	120mV	30mV				
	15W	+5.0V ±15V	+V1	+5.00	+4.90	+5.10	+11	+0.15	+1.5	75mV	15mV			83%	D15T4805-15
			+V3	+15.0	+14.4	+16.0	+12	+0.025	+0.25	120mV	30mV				
			-V2	-15.0	-14.4	-16.0	+13	-0.025	-0.25	120mV	30mV				
W-24 (10 - 36)	10W	+5.0V ±12V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.0	75mV	15mV	Pulse by Pulse Current Limiting	Not Available	80%	DW10T2405-12
			+V3	+12.0	+11.4	+13.0	+12	+0.02	+0.21	100mV	25mV				
			-V2	-12.0	-11.4	-13.0	+13	-0.02	-0.21	100mV	25mV				
	10W	+5.0V ±15V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.0	75mV	15mV			80%	DW10T2405-15
			+V3	+15.0	+14.4	+16.0	+12	+0.02	+0.17	120mV	30mV				
			-V2	-15.0	-14.4	-16.0	+13	-0.02	-0.17	120mV	30mV				
W-48 (20 - 75)	10W	+5.0V ±12V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.0	75mV	15mV	Pulse by Pulse Current Limiting	Not Available	82%	DW10T4805-12
			+V3	+12.0	+11.4	+13.0	+12	+0.02	+0.21	100mV	25mV				
			-V2	-12.0	-11.4	-13.0	+13	-0.02	-0.21	100mV	25mV				
	10W	+5.0V ±15V	+V1	+5.00	+4.90	+5.10	+11	+0.1	+1.0	75mV	15mV			82%	DW10T4805-15
			+V3	+15.0	+14.4	+16.0	+12	+0.02	+0.17	120mV	30mV				
			-V2	-15.0	-14.4	-16.0	+13	-0.02	-0.17	120mV	30mV				

\* Combined Line & Load (Low Line to High Line, Min. Load to Full Load)  
(+V1 is Regulated and +V2/-V2 are Semi-Regulated.

**Product Numbering System**

<b>D</b>	<b>10</b>	<b>T</b>	<b>24</b>	<b>05</b>	<b>-</b>	<b>12</b>
Series No.	Output Power*	No Output	Input Voltage	+V1 Output	+V2/-V3 Outputs	
D	10 : 10W 15 : 15W	T : Triple	12 : 9-18V 24 : 18-36V 48 : 36-75V	05 : 5.0V	12 : ±12V 15 : ±15V	
DW			24 : 10-36V 48 : 20-75V			

**BLOCK DIAGRAM**

