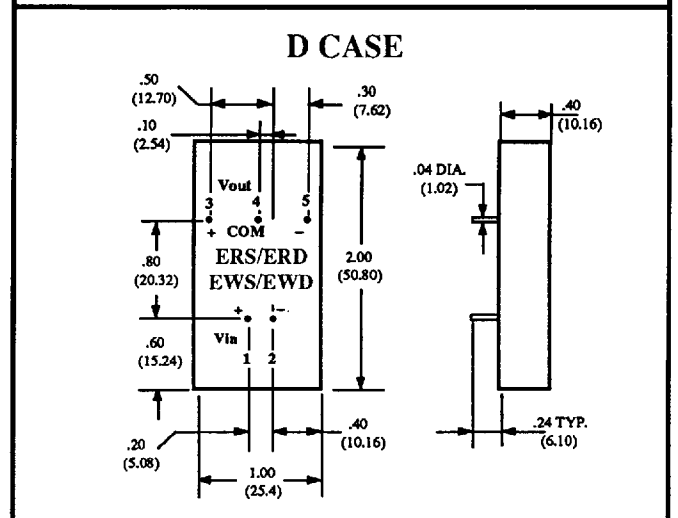
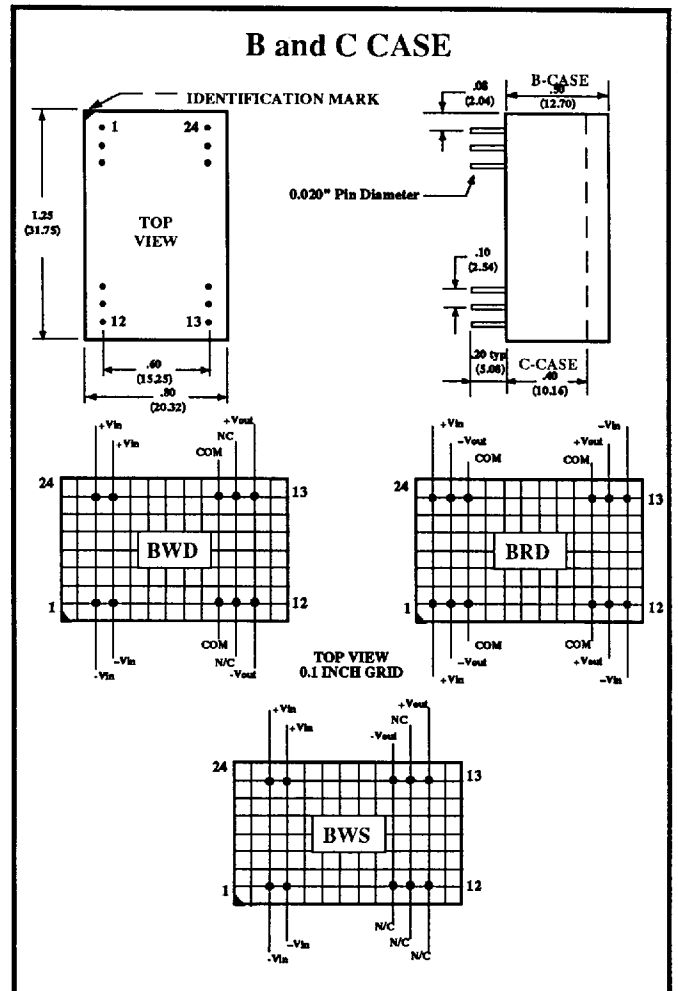




T-57-11

Description	Vin	Vout/Iout	Eff.	Case	Model
2.1 WATT Regulated Dual Out	4.8 - 5.2	±12V/±85mA	60%	C	BRD512
	4.8 - 5.2	±15V/±70mA	60%	C	BRD515
3 WATT Regulated Wide Input Single out	9 - 18	5V/500mA	73%	B	BWS1205
	9 - 18	12V/250mA	79%	B	BWS1212
	18 - 36	5V/500mA	75%	B	BWS2405
	18 - 36	12V/250mA	79%	B	BWS2412
	36 - 72	5V/500mA	76%	B	BWS4805
3 WATT Regulated Wide Input Dual out	9 - 18	±5V/250mA	73%	B	BWD1205
	9 - 18	±12V/125mA	79%	B	BWD1212
	18 - 36	±5V/250mA	75%	B	BWD2405
	18 - 36	±12V/125mA	79%	B	BWD2412
	36 - 72	±5V/250mA	76%	B	BWD4805
5 WATT Regulated High-Density Single out	4.65 - 5.50	5V/1000mA	60%	D	ERS505
	4.65 - 5.50	12V/416mA	65%	D	ERS512
	4.65 - 5.50	15V/333mA	70%	D	ERS515
	10.9 - 13.2	5V/1000mA	61%	D	ERS1205
	10.9 - 13.2	12V/416mA	66%	D	ERS1212
	10.9 - 13.2	15V/333mA	65%	D	ERS1215
	21.6 - 26.4	5V/1000mA	62%	D	ERS2405
	21.6 - 26.4	12V/416mA	66%	D	ERS2412
	21.6 - 26.4	15V/333mA	69%	D	ERS2415
	43.2 - 52.8	5V/1000mA	62%	D	ERS4805
	43.2 - 52.8	12V/416mA	66%	D	ERS4812
5 WATT Regulated High-Density Dual out	4.65 - 5.50	±5V/500mA	60%	D	ERD505
	4.65 - 5.50	±12V/208mA	70%	D	ERD512
	4.65 - 5.50	±15V/165mA	70%	D	ERD515
	10.9 - 13.2	±5V/500mA	65%	D	ERD1205
	10.9 - 13.2	±12V/208mA	70%	D	ERD1212
	10.9 - 13.2	±15V/165mA	70%	D	ERD1215
	21.6 - 26.4	±5V/500mA	65%	D	ERD2405
	21.6 - 26.4	±12V/208mA	70%	D	ERD2412
	21.6 - 26.4	±15V/165mA	70%	D	ERD2415
	43.2 - 52.8	±5V/500mA	65%	D	ERD4805
	43.2 - 52.8	±12V/208mA	70%	D	ERD4812
TO 6 WATT Regulated Wide Input Single out	9 - 18	5V/1000mA	73%	D	EWS1205
	9 - 18	12V/500mA	79%	D	EWS1212
	9 - 18	15V/400mA	82%	D	EWS1215
	18 - 36	5V/1000mA	73%	D	EWS2405
	18 - 36	12V/500mA	79%	D	EWS2412
	18 - 36	15V/400mA	82%	D	EWS2415
	36 - 72	5V/1000mA	79%	D	EWS4805
	36 - 72	12V/500mA	79%	D	EWS4812
TO 6 WATT Regulated Wide Input Dual out	9 - 18	±5V/500mA	73%	D	EWD1205
	9 - 18	±12V/250mA	79%	D	EWD1212
	9 - 18	±15V/200mA	83%	D	EWD1215
	18 - 36	±5V/500mA	80%	D	EWD2405
	18 - 36	±12V/250mA	79%	D	EWD2412
	18 - 36	±15V/200mA	83%	D	EWD2415
	36 - 72	±5V/500mA	80%	D	EWD4805
	36 - 72	±12V/250mA	79%	D	EWD4812
15 WATT Regulated Wide Input Single out	20 - 60	5V/3000mA	80%	M	MWS4805
	20 - 60	12V/1250mA	83%	M	MWS4812
	20 - 60	15V/1000mA	84%	M	MWS4815
15 WATT Regulated Wide Input Dual out	20 - 60	±5V/±1500mA	79%	M	MWD4805
	20 - 60	±12V/±625mA	83%	M	MWD4812
	20 - 60	±15V/±500mA	84%	M	MWD4815



## OPTIONS AVAILABLE:

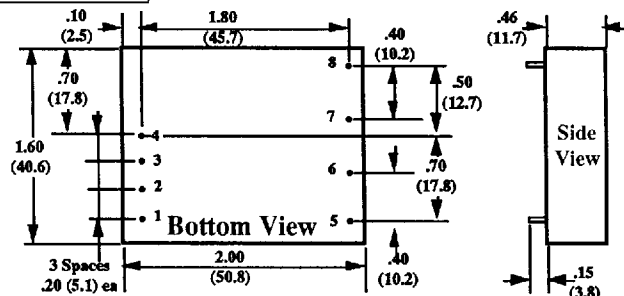
- JUST-IN-TIME SERVICE
- CUSTOM AND MODIFIED DESIGNS
- NON-STANDARD INPUT/OUTPUT VOLTAGES
- EXTENDED TEMPERATURE RANGES
- REGULATORY AGENCY APPROVALS
- ALTERNATE PINOUTS
- UNIQUE CONNECTIONS
- SPECIAL PACKAGING (MODULE SIZE)
- WATER-WASHABLE SEALED CASE
- ACCESSORIES

\* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE



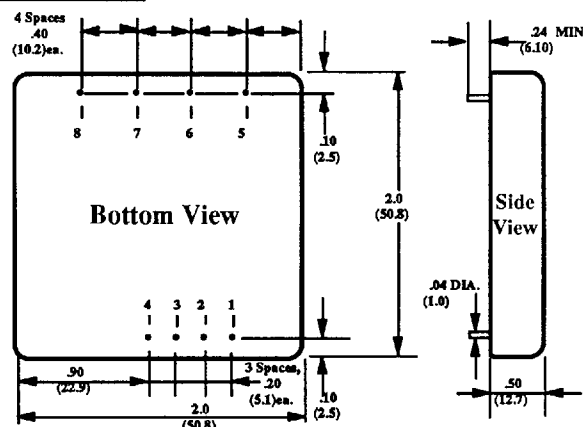
Description	Vin	Vout/Iout	Eff.	Case	Model
15 WATT Regulated Wide Input Triple out	9 - 20	+5±12V@ +1.5±0.31A	79%	M	MWT1205-12
	9 - 20	+5±15V@ +1.5±0.25A	82%	M	MWT1205-15
	18 - 36	+5±12V@ +1.5±0.31A	81%	M	MWT2405-12
	18 - 36	+5±15V@ +1.5±0.25A	83%	M	MWT2405-15
	36 - 72	+5±12V@ +1.5±0.31A	82%	M	MWT4805-12
	36 - 72	+5±15V@ +1.5±0.25A	84%	M	MWT4805-15
25 WATT Regulated Wide Input Single out	20 - 60	5V/500mA	80%	O	OWS4805
	20 - 60	12V/2083mA	83%	O	OWS4812
	20 - 60	15V/1666mA	84%	O	OWS4815
25 WATT Regulated Wide Input Dual out	20 - 60	±5V±2500mA	79%	O	OWD4805
	20 - 60	±12V±1048mA	84%	O	OWD4812
	20 - 60	±15V±830mA	85%	O	OWD4815
25 WATT Regulated Wide Input Triple out	9 - 20	+5±12V@ +3.8±0.25A	79%	O	OWT1205-12
	9 - 20	+5±15V@ +3.1/0.31A	82%	O	OWT1205-15
	18 - 36	+5±12V@ +3.8±0.25A	81%	O	OWT2405-12
	18 - 36	+5±15V@ +3.1/0.31A	83%	O	OWT2405-15
	36 - 72	+5±12V@ +3.8±0.25A	82%	O	OWT4805-12
	36 - 72	+5±15V@ +3.1/0.31A	84%	O	OWT4805-15
TO 60 WATT Regulated Wide Input Single out	10 - 20	5V/10.0A	80%	P	RWS1205H
	10 - 20	12V/5.0A	82%	P	RWS1212H
	18 - 36	5V/10.0A	80%	P	RWS2405H
	18 - 36	12V/5.0A	83%	P	RWS2412H
	36 - 72	5V/10.0A	80%	P	RWS4805H
	36 - 72	12V/5.0A	84%	P	RWS4812H
TO 60 WATT Regulated Wide Input Dual out	10 - 20	±5V±5.0A	80%	P	RWD1205H
	10 - 20	±12V±2.5A	82%	P	RWD1212H
	18 - 36	±5V±5.0A	81%	P	RWD2405H
	18 - 36	±12V±2.5A	83%	P	RWD2412H
	36 - 72	±5V±5.0A	82%	P	RWD4805H
	36 - 72	±12V±2.5A	84%	P	RWD4812H
55 WATT Regulated Wide Input Triple out	9 - 18	+5±12V @ +5±1.25A	80%	P	RWT1205-12H
	9 - 18	+5±15V @ 5±1A	80%	P	RWT1205-15H
	18 - 36	+5±12V @ +5±1.25A	81%	P	RWT2405-12H
	18 - 36	+5±15V @ 5±1A	82%	P	RWT2405-15H
	36 - 72	+5±12V @ +5±1.25A	82%	P	RWT4805-12H
	36 - 72	+5±15V @ 5±1A	82%	P	RWT4805-15H
TO 100 WATT Regulated Wide Input Single out	10 - 20	5V/10.0A	80%	T	TWS1205
	10 - 20	12V/4.1A	82%	T	TWS1212
	18 - 36	5V/15.0A	79%	T	TWS2405
	18 - 36	12V/8.3A	83%	T	TWS2412
	36 - 72	5V/15.0A	80%	T	TWS4805
	36 - 72	12V/8.3A	84%	T	TWS4812

**M CASE**



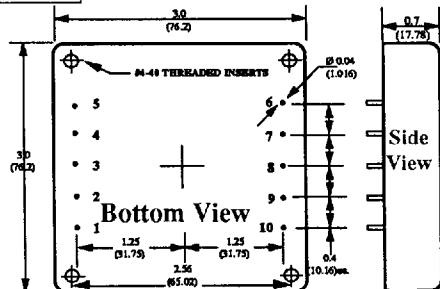
Pin #	MWS	MWD	MWT
1	ON/OFF	ON/OFF	NO PIN
2	NO PIN	NO PIN	NO PIN
3	INPUT -	INPUT -	INPUT -
4	INPUT +	INPUT +	INPUT +
5	TRIM	TRIM	OUTPUT +5
6	OUTPUT -	OUTPUT -	COMMON
7	OUTPUT +	COMMON	AUX OUT +
8	NO PIN	OUTPUT +	AUX OUT -

**O CASE**



Pin #	OWS	OWD	OWT
1	ON/OFF	ON/OFF	ON/OFF
2	N/C	N/C	N/C
3	INPUT -	INPUT -	INPUT -
4	INPUT +	INPUT +	INPUT +
5	TRIM	TRIM	AUX OUT -
6	OUTPUT -	OUTPUT -	COMMON
7	OUTPUT +	COMMON	OUTPUT +5
8	N/C	OUTPUT +	AUX OUT +

**P CASE**



Pin #	RWS-H	RWD-H	RWT-H
1	ON/OFF	ON/OFF	ON/OFF
2	CASE	CASE	CASE
3	INPUT +	INPUT +	INPUT +
4	INPUT -	INPUT -	INPUT -
5	NO PIN	NO PIN	NO PIN
6	N/C	OUTPUT -	OUTPUT 3 -
7	N/C	COMMON	OUTPUT 2 +
8	OUTPUT -	COMMON	COMMON
9	OUTPUT +	COMMON +	OUTPUT +5V
10	TRIM	TRIM	TRIM

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Description	Vin	Vout/Iout	EFF	Case	Model
75 WATT Regulated Wide Input Dual out	10 - 20	±5V/±5.0A	80%	TD	TWD1205
	10 - 20	±12V/±2.3A	82%	TD	TWD1212
	18 - 36	±5V/±7.5A	81%	TD	TWD2405
	18 - 36	±12V/3.12A	83%	TD	TWD2412
	36 - 72	±5V/±7.5A	82%	TD	TWD4805
36 - 72	±12V/3.12A	84%	TD	TWD4812	
75 WATT Regulated Wide Input Triple out	9 - 18	+5/±12V @ +5/±1.25A	80%	TD	TWT1205-12
	9 - 18	+5/±15V @ 5/±1A	82%	TD	TWT1205-15
	18 - 36	+5/±12V @ +7.5/±1.56A	85%	TD	TWT2405-12
	18 - 36	+5/±15V @ 7.5/±1.25A	86%	TD	TWT2405-15
	36 - 72	+5/±12V @ +7.5/±1.56A	85%	TD	TWT4805-12
36 - 72	+5/±15V @ 7.5/±1.25A	86%	TD	TWT4805-15	
TO 180 WATT Regulated Wide Input Single out	10 - 20	5V/20.0A	79%	U	XWS1205
	10 - 20	12V/8.3A	81%	U	XWS1212
	18 - 36	5V/30.0A	84%	U	XWS2405
	18 - 36	12V/15.0A	85%	U	XWS2412
	36 - 72	5V/30.0A	84%	U	XWS4805
36 - 72	12V/15.0A	85%	U	XWS4812	
TO 180 WATT Regulated Wide Input Dual out	10 - 20	±5V/±10.0A	79%	U	XWD1205
	10 - 20	±12V/±4.2A	81%	U	XWD1212
	18 - 36	±5V/±15.0A	84%	U	XWD2405
	18 - 36	±12V/±7.5A	85%	U	XWD2412
	36 - 72	±5V/±15.0A	84%	U	XWD4805
36 - 72	±12V/±7.5A	85%	U	XWD4812	
TO 180 WATT Regulated Wide Input Triple out	9 - 18	+5/±12V @ +10/±2.1A	79%	U	XWT1205-12
	9 - 18	+5/±15V @ +10/±1.65A	81%	U	XWT1205-15
	18 - 36	+5/±12V @ +15/±3.2A	84%	U	XWT2405-12
	18 - 36	+5/±15V @ +15/±2.5A	85%	U	XWT2405-15
	36 - 72	+5/±12V @ +15/±3.2A	84%	U	XWT4805-12
36 - 72	+5/±15V @ +15/±2.5A	85%	U	XWT4805-15	
TO 150 WATT Regulated Wide Input Quadruple Output	9 - 18	±5/±12V @ ±5/±2.1A	79%	U	XWQ1205-12
	9 - 18	±5/±15V @ ±5/±1.65A	81%	U	XWQ1205-15
	18 - 36	±5/±12V @ ±7.5/±3.2A	84%	U	XWQ2405-12
	18 - 36	±5/±15V @ ±7.5/±2.5A	85%	U	XWQ2405-15
	36 - 72	±5/±12V @ ±7.5/±3.2A	84%	U	XWQ4805-12
36 - 72	±5/±15V @ ±7.5/±2.5A	85%	U	XWQ4805-15	

**T CASE & TD CASE**

**BOTTOM VIEW TWS SERIES T CASE**

**BOTTOM VIEW TWD/TWT SERIES TD CASE**

Pin #	TWS	TWD	TWT
1	INPUT +	ON/OFF CASE	ON/OFF CASE
2	ON/OFF CASE	INPUT +	INPUT +
3	N/C	INPUT -	INPUT -
4	INPUT -	INPUT -	INPUT -
5	OUTPUT +	N/C	N/C
6	SENSE +	OUTPUT -	AUX -
7	TRIM	COMMON	AUX +
8	SENSE -	COMMON	COMMON
9	OUTPUT -	OUTPUT +	OUTPUT +5V
10		TRIM	TRIM

**U CASE**

**0.040" Pin Diameter XWS/XWD XWT/XWQ SERIES BOTTOM VIEW**

Pin #	XWS	XWD	XWT	XWQ
1	NO PIN	NO PIN	NO PIN	NO PIN
2	INPUT -	INPUT -	INPUT -	INPUT -
3	INPUT -	INPUT -	INPUT -	INPUT -
4	INPUT +	INPUT +	INPUT +	INPUT +
5	INPUT +	INPUT +	INPUT +	INPUT +
6	ON/OFF	ON/OFF	ON/OFF	ON/OFF
7	CASE	CASE	CASE	CASE
8	OUTPUT -	SENSE 1 -	SENSE 1 -	OUTPUT 1 -
9	OUTPUT -	OUTPUT 1 -	OUTPUT 1 -	COMMON
10	OUTPUT +	OUTPUT 1 +	OUTPUT 1 +	OUTPUT 2 +
11	OUTPUT +	SENSE 1 +	SENSE 1 +	TRIM
12	SENSE -	OUTPUT 2 -	OUTPUT 2 -	OUTPUT 3 -
13	TRIM	TRIM	COMM. 2 & 3	COMMON
14	SENSE +	OUTPUT 2 +	OUTPUT 3 +	OUTPUT 4 +

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**COMMON SPECIFICATIONS:**  
 All Specifications Typical @ +25°C, Nominal Line and Full Load, Unless Otherwise Specified.  
 Isolation Voltage ..... 500Vdc, min.  
 Operating Temperature Range:  
 (ERS, ERD, MWS, MWD, MWT, OWS, OWD and OWT Series) ..... -25°C to +60°C (No Derating)  
 (All Other Series) ..... -25°C to +71°C (No Derating)  
 EMI/RFI ..... Six-Sided Continuous Metal Case, (Except B-Series)  
 Case Material ..... Black Painted Copper or Anodized Aluminum  
 Various Options and Accessories are Available - Please Consult Factory.