

**SMD DC-DC Converters**

The SMD package of miniature surface mounted DC/DC Converters introduce leadframe technology and transfer moulding techniques to bring all of the benefits of IC style packaging to hybrid circuitry.

The devices are suitable for all applications where need high volume production.

Isolation voltage are 1000VDC、1500VDC、3000VDC,small size and high efficiency,TOPPOWER know this technology and has the transfer moulding line, all of the SMD package can be used for pick place and go through reflow oven which save time and cost,pall of them are ROHS compliants. Operation temperature range: -40 ~ +85°C.



Series	Power (W)	Input voltage (V)	Output voltage (V)	Output type	Isolation (V)	Package	Typical efficiency	Output regulation	Dimensions (mm)
TPTE-W2	0,25	3.3、5、12	3.3、5、9、12、15	1	1000	SMD	76%	Un-regulated	12.7*7.7*6.1
TPTV	0,25	5、12	±5、±9、±12、±15	2	3000	SMD	82%	Un-regulated	15.24*7.7*6.1
TPTE	1	3.3、5、12	3.3、5、9、12、15	1	1000	SMD	78%	Un-regulated	12.7*7.7*6.1
TPTA	1	3.3、5、12、15	±3.3、±5、±9、±12、±15	2	1000	SMD	78%	Un-regulated	15.24*7.7*6.1
TPTA-A	1	3.3、5、12、15	±3.3、±5、±9、±12、±15	2	1000	SMD	78%	Un-regulated	15.24*7.7*6.1
TPTV	1	5、12	±5、±9、±12、±15	2	3000	SMD	82%	Un-regulated	15.24*7.7*6.1

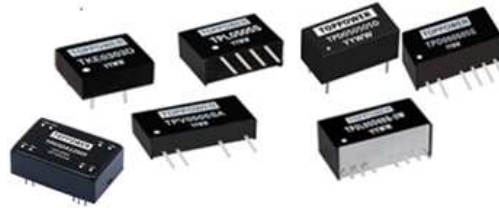
**0.1-3W DC-DC Converters**

All DC-DC converters with regulated output and un-regulated output,

The power ranges from 0.1W to 3W with various packages.

The isolation voltage are 1000VDC,1500VDC, 3000VDC and 6000VDC respectively. There are thousands of variants DC-DC converters for your choice.

All of them meet ROHS requirement.



Series	Power (W)	Input voltage (V)	Output voltage (V)	Output type	Isolation (V)	Package	Typical efficiency	Output regulation	Dimensions (mm)
TPLE-W1	0,1	5、12	5、9、12、15	1	1000	SIP/DIP	86%	Un-regulated	SIP:11.48*6.0*10.0 DIP:11.50*9.8*6.8
TPLE	0,25	5、12	5、9、12、15	1	1000	SIP/DIP	76%	Un-regulated	SIP:11.48*6.0*10.0 DIP:11.50*9.8*6.8
TPR-W2	0,25	5、12	5、9、12、15	1	1000	SIP	75%	Un-regulated	19.5*6.0*10.0
TPV-W2	0,25	3.3、5、12、15、24、48	5、9、12、15	1 and 2	3000	SIP/DIP	81%	Un-regulated	SIP:19.50*6.0*10.0 DIP:19.50*9.8*6.8
TPD-W5	0,5	5、12	3.3、5、9、12、15	Twin output	3000(in/out, out/out)	SIP/DIP	80%	Un-regulated	SIP:19.50*6.0*10.0 DIP:19.50*9.8*6.8
TPLE-W5	0,5	5、12	5、9、12、15	1	1000	SIP/DIP	78%	Un-regulated	SIP:11.48*6.0*10.0 DIP:11.50*9.8*6.8
TPR-W5	0,5	5、12、15、24	5、12、15、24	1	3000	SIP	80%	Un-regulated	19.5*6.0*10.0
TPV-W5	0,5	3.3、5、12、15、24、48	5、9、12、15/±5、±9、±12、±15	1 and 2	3000	SIP/DIP	81%	Un-regulated	SIP:19.50*6.0*10.0 DIP:19.50*9.8*6.8
TKA	1	3.3、5、12	±3.3、±5、±9、±12、±15、±24	2	3000	SIP/DIP	82%	Un-regulated	SIP:16.55*5.95*7.55 DIP:19.50*9.8*5.4
TKA-A	1	3.3、5、12	3.3、5、9、12、15、24	1	3000	SIP/DIP	82%	Un-regulated	SIP:16.55*5.95*7.55 DIP:19.50*9.8*5.4
TPA	1	5、12、15、24、48	5、9、12、15/±5、±9、±12、±15	1 and 2	3000	SIP/DIP	80%	Un-regulated	SIP:19.50*6.0*10.0 DIP:19.50*9.8*6.8
TPNA	1	5、12、15、24、48	±5、±9、±12、±15	2	3000	SIP	89%	Un-regulated	19.5*6.0*10.0
TPB-1W	1	3.3、5、12、15、24	5、9、12、15、24	1	3000	SIP	75%	Regulated/ SC protection	19.5*6.0*10.0
TPD	1	5、12	3.3、5、9、12、15	Twin output	3000(in/out, out/out)	SIP/DIP	80%	Un-regulated	SIP:19.50*6.0*10.0

TPD	1	5、12	15	Pin Output	ut/out)	SIP/DIP	80%	Un-regulated	DIP:19.50*9.8*6.8
TPE	1	5、12、24、48	5、9、12、15、24	1	1000	SIP/DIP	81%	Un-regulated	SIP:11.48*6.0*10.0 DIP:11.50*9.8*6.8

TKE	1	3.3、5、12	3.3、5、9、12、15	1	3000	SIP/DIP	81%	Un-regulated	SIP:11.48*6.00*7.46 DIP:11.50*9.8*5.4
TPF	1	5、12、24、48	5、9、12、15	1	3000	SIP/DIP	62%	Regulated/ SC protection	SIP:19.50*6.0*10.0 DIP:19.50*9.8*6.8
TPI	1	5、12、24	±5、±9、±12、±15	2	3000	SIP	66%	Regulated/ SC protection	27.5*12*9.5
TPJ	1	3.3、5、12	3.3、5、9、12、15/±5、±9、±12、±15	1 and 2	6000	SIP	74%	Un-regulated	19.5*9.8*12.5
TP2L-1W	1	5 (2:1) 4.5-9 12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72	3.3、5、9、12、15、24/±5、±9、±12、±15、±24	1 and 2	1000	SIP	80%	Regulated/ SC protection	2.18*9.2*11.1
TPR	1	5、12、15、24	5、12、15、24	1	3000	SIP	80%	Un-regulated	19.5*6.0*10.0
TPV	1	3.3、5、12、15、24、48	5、9、12、15/±5、±9、±12、±15	1 and 2	3000	SIP/DIP	81%	Un-regulated	SIP:19.50*6.0*10.0 DIP:19.50*9.8*6.8
TPB	2	5、12、24	5	1	3000	SIP	71%	Regulated/ SC protection	19.5*7.5*10
TPG	2	5、12、24	5、9、12、15、24	1	3000	SIP	88%	Un-regulated	19.50*7.5*10.0
TPH	2	5、12、24、48	5、9、12、15、24/±5、±9、±12、±15、±24	1 and 2	3000	SIP/DIP	86%	Un-regulated	SIP:19.50*7.5*10.0 DIP:19.50*9.8*7.7
TPJ-2W	2	3.3、5、12	3.3、5、9、12、15/±5、±9、±12、±15	1 and 2	6000	SIP	74%	Un-regulated	19.5*9.8*12.5
TPK	2	5、12、24	3.3、5、9、12、15/±5、±9、±12、±15	1 and 2	3000	SIP	89%	Un-regulated	19.50*7.5*10.0
TPL	2	5、12	5、9、12、15	1	1000	SIP	86%	Un-regulated	14.0*7.5*10.0
TP2L	2	5 (2:1) 4.5-9 12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72	3.3、5、9、12、15	1	1000	SIP	83%	Regulated/ SC protection	21.8*9.2*11.1
TP2D	3	5 (2:1) 4.5-9 12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72	±3.3、±5、±12、±15	2	1000	DIP	82%	Regulated/ SC protection	32.26*14.66*7.0
TPG-3W	3	5、12、24	5、9、12、15、24	1	3000	SIP	88%	Un-regulated	19.5*7.5*10.0
TPK-3W	3	5、12、24	5、9、12、15/±5、±9、±12、±15	1 and 2	3000	SIP	89%	Un-regulated	19.50*7.5*10.0
TPL-3W	3	5、12	5、9、12、15	1	1000	SIP	86%	Un-regulated	14.0*7.5*10.0
TP2L-3W	3	12(2:1)9-18 24(2:1)18-36 48(2:1)36-72	3.3、5、9、12、15、24/±5、±9、±12、±15	1 and 2	1000	SIP	80%	Regulated/ SC protection	21.8*9.2*11.1
TP03DA	3	12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72 24 (4:1) 9-36 48 (4:1) 18-72	3.3、5、12、15、±5、±12、±15	1 and 2	1500 /3000	DIP	80%	Regulated/ SC protection	31.75*20.32*11.2
TP03DB	3	12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72 24 (4:1) 9-36 48 (4:1) 18-72	3.3、5、12、15、±5、±12、±15	1 and 2	1500	DIP	80%	Regulated/ SC protection	25.4*25.4*11.2

### 5-10W DC-DC Converters

DC-DC converters with metal screen case, power from 5W ~ 10W, wide input range 2:1 and 4:1, they are 4.5-9V、9-18V、18-36V、36-72V; 9-36V、18-72V; output voltage 3.3V、5V、12V、15V with single and dual output, isolation voltage: 1500V、( 3000V available ). All of them are RoHS compliants, small size and high reliability.



Series	Power (W)	Input voltage (V)	Output voltage (V)	Output type	Isolation	Package	Typical efficiency	Output regulation	Dimensions (mm)
TP05DA	5	12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72 24 (4:1) 9-36 48 (4:1) 18-72	3.3、5、12、15 、24/±5、±12 、±15	1 and 2	1500	DIP	80%	Regulated/ SC protection	31.75*20.32*11.2
TP05DB	5	12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72 24 (4:1) 9-36 48 (4:1) 18-72	3.3、5、12、15/ ±5、±12、±15	1 and 2	1500	DIP	80%	Regulated/ SC protection	25.4*25.4*11.2
TP06DA	6	12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72 24 (4:1) 9-36 48 (4:1) 18-72	3.3、5、12、15 、24/±5、±12、± 15	1 and 2	1500	DIP	80%	Regulated/ SC protection	31.75*20.32*11.2
TP06DB	6	12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72 24 (4:1) 9-36 48 (4:1) 18-72	3.3、5、12、15 、24/±5、±12、± 15	1 and 2	1500	DIP	80%	Regulated/ SC protection	25.4*25.4*11.2
TP10DC	10	12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72 24 (4:1) 9-36 48 (4:1) 18-72	3.3、5、12、15/ ±5、±12、±15	1 and 2	1500	DIP	81%	Regulated/ SC protection	50.8*25.4*11.2

### 10W above DC-DC Converters

DC-DC converters with metal screen case, power from 15W ~ 40W , wide input range 2:1 and 4:1, they are 4.5-9V、 9-18V、 18-36V、 36-72V; 9-36V、 18-72V; output voltage 3.3V、 5V、 12V、 15V with single and dual output, isolation voltage: 1500V. All of them are RoHS compliants, small size and high reliability.



Series	Power (W)	Input voltage (V)	Output voltage (V)	Output type	Isolation (V)	Package	Typical efficiency	Output regulation	Dimensions (mm)
TP15DC	15	12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72	3.3、 5、 12、 15/ ±5、 ±12、 ±15	1 and 2	1500	DIP	85%	Regulated/ SC protection	50.8*25.4*11.2
TP15DD	15	12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72 24 (4:1) 9-36 48 (4:1) 18-72	3.3、 5、 12、 15、 24/ ±5、 ±12、 ±15	1 and 2	1500	DIP	85%	Regulated/ SC protection	50.8*40.6*11.2
TP20DD	20	12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72 24 (4:1) 9-36 48 (4:1) 18-72	3.3、 5、 12、 15、 24/ ±5、 ±12、 ±15	1 and 2	1500	DIP	86%	Regulated/ SC protection	50.8*40.6*11.2
TP25DD	25	12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72	3.3、 5、 12、 15、 24/ ±5、 ±12、 ±15	1 and 2	1500	DIP	86%	Regulated/ SC protection	50.8*40.6*11.2
TP25DG	25	12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72 24 (4:1) 9-36 48 (4:1) 18-72	3.3、 5、 12、 15、 24/ ±5、 ±12、 ±15	1 and 2	1500	DIP	86%	Regulated/ SC protection	50.8*50.8*11.2
TP30DG	30	12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72 24 (4:1) 9-36 48 (4:1) 18-72	3.3、 5、 12、 15、 24/ ±5、 ±12、 ±15	1、 2、 3	1500	DIP	87%	Regulated/ SC protection	50.8*50.8*11.2
TP40DG	40	12 (2:1) 9-18 24 (2:1) 18-36 48 (2:1) 36-72	3.3、 5、 12、 15、 24/ ±5、 ±12、 ±15	1、 2、 3	1500	DIP	87%	Regulated/ SC protection	50.8*50.8*11.2

## AC-DC Converters

Wide range input voltage; Being used both for direct and alternative current;

High electricity efficiency; Reliable performance.

Industrial Control System, Power system, Apparatus and Instrument,  
Medical facilities, Rail-transit system, Telecommunication Equipment,  
Security and Protection Equipment and Military Industrial System etc.



Series	Power (W)	Input voltage (V)	Output voltage (V)	Output type	Isolation (V)	Package	Typical efficiency	Output regulation	Dimensions (mm)
TP03AA	3	220 (2:1) 165~265 220 (4:1) 85~265	5, 12, 15, 24± 5, ±12, ±15±24	1and2	2500	DIP	78%	Regulated/ SC protection	37.0*18.5*16.5
TP03AC	3	220 (2:1) 165~265 220 (4:1) 85~265	5, 12, 15, 24± 5, ±12, ±15±24	1and2	2500	DIP	78%	Regulated/ SC protection	37.0*18.5*16.5
TP03AR	3	220 (2:1) 165~265 220 (4:1) 85~265	5, 12, 15, 24± 5, ±12, ±15±24	1, 2, 3	2500	DIP	78%	Regulated/ SC protection	48.5*36*20.5
TP05AS	5	220 (2:1) 165~265 220 (4:1) 85~265	5, 12, 15, 24± 5, ±12, ±15±24	1, 2, 3	2500	DIP	80%	Regulated/ SC protection	55*45*20.5
TP05AR	5	220 (2:1) 165~265 220 (4:1) 85~265	5, 12, 15, 24± 5, ±12, ±15±24	1, 2, 3	2500	DIP	80%	Regulated/ SC protection	55*36*20.5
TP10AS	10	220 (2: 1) 165~265 220 (4: 1) 85~265	5, 12, 15, 24± 5, ±12, ±15±24	1, 2, 3	2500	DIP	84%	Regulated/ SC protection	55*45*22.5
TP10AT	10	220 (2: 1) 165~265 220 (4: 1) 85~265	5, 12, 15, 24± 5, ±12, ±15±24	1, 2, 3	2500	DIP	84%	Regulated/ SC protection	62*45*22.5
TP15AT	15	220 (2: 1) 165~265 220 (4: 1) 85~265	5, 12, 15, 24± 5, ±12, ±15±24	1, 2, 3	2500	DIP	81%	Regulated/ SC protection	62*45*22.5
TP20AU	20	220 (2: 1) 165~265 220 (4: 1) 85~265	5, 12, 15, 24± 5, ±12, ±15±24	1, 2, 3	2500	DIP	85%	Regulated/ SC protection	70*48*23.5
TP25AU-TP30AU	25/30	220 (2: 1) 165~265 220 (4: 1) 85~265	5, 12, 15, 24± 5, ±12, ±15±24	1, 2, 3	2500	DIP	79%	Regulated /SC protection	70*48*23.5

## Non isolated output DC-DC power module



Series	Power (W)	Input voltage (V)	Output voltage (V)	Output type	Isolation (V)	Package	Typical efficiency	Output regulation	Dimensions (mm)
TP78XX-0.5	/	12, 24	1.5, 1.8, 2.5, 3.3, 5.0, 6.5, 9.0, 12, 15	/	/	SIP	96%	Regulated /SC protection	10.5*11.6*7.5
TP78XX-1	/	12, 24	1.5, 1.8, 2.5, 3.3, 5.0	/	/	SIP	93%	Regulated /SC protection	10.5*11.6*7.5
TP78LXX-1	/	12, 24	1.5, 1.8, 2.5, 3.3, 5.0, 6.5, 9.0, 12, 15	/	/	SIP	79%	Regulated /SC protection	10.5*11.6*7.5
TP78LXX-1.5	/	12	1.5, 1.8, 2.5, 3.3, 5.0, 6.5	/	/	SIP	79%	Regulated /SC protection	17.5*9.0*11.5
TP78XX-2	/	12	1.5, 1.8, 2.5, 3.3, 5.0, 6.5	/	/	SIP	79%	Regulated /SC protection	17.5*9.0*11.5