



**5**  
YEARS  
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Medical



PV



Automation



Datacom



IPC



Industry



Measurement



Telecom



Automobile



Boat



Charger



Railway



**2**  
x  
MOOP

**3000**  
VAC  
Reinforced  
Insulation

**4 : 1**  
Wide  
Input  
Range

**2 : 1**  
Input  
Range

Internal  
EN55032  
Class  
Filter **A**

**LOW**  
Leakage  
Current

**LOW**  
Standby  
Power

**NO**  
Min. Load  
Required

Operating  
Altitude  
**5000**  
meter

**OCP**

**OVP**

**SCP**

**UVP**

### PART NUMBER STRUCTURE

Series Name	Input Voltage (VDC)	Output Quantity	Output Voltage (VDC)	Input Range	Pin Connection Options	Remote On/Off Options	Trim Options
MOP06 - <b>48</b>	05:4.5~9 12:9~18 24:18~36 48:36~75	S:Single	3P3:3.3 05:5 12:12 15:15 24:24	□ : 2:1	A: A type(Standard) B: B type	□ :No pin P:Remote On/Off (Only for B type Pin connection)	□ :No Trim T:Trim (Only for B type Pin connection)
MOP06 - <b>05</b>	24:9~36 48:18~75	S:Single	3P3:3.3 05:5 12:12 15:15 24:24	W: 4:1	A: A type(Standard) B: B type	□ :No pin P:Remote On/Off (Only for B type Pin connection)	□ :No Trim T:Trim (Only for B type Pin connection)

**TECHNICAL SPECIFICATION** All specifications are typical at nominal input, full load and 25°C unless otherwise noted

Model Number	Input Range VDC	Output Voltage VDC	Output Current @ Full Load mA	Input Current @ No Load mA	Efficiency %	Maximum Capacitor Load µF
MOP06-05S3P3A/B	4.5 ~9	3.3	1800	10	81.5	2100
MOP06-05S05A/B	4.5 ~9	5	1200	10	86	1500
MOP06-05S12A/B	4.5 ~9	12	500	15	86	260
MOP06-05S15A/B	4.5 ~9	15	400	15	87.5	210
MOP06-05S24A/B	4.5 ~9	24	250	20	87	75
MOP06-05D05A/B	4.5 ~9	±5	±600	25	84	± 860
MOP06-05D12A/B	4.5 ~9	±12	±250	25	86.5	± 150
MOP06-05D15A/B	4.5 ~9	±15	±200	25	87.5	± 110
MOP06-12S3P3A/B	9 ~ 18	3.3	1800	10	83.5	2100
MOP06-12S05A/B	9 ~ 18	5	1200	10	86	1500
MOP06-12S12A/B	9 ~ 18	12	500	10	89	260
MOP06-12S15A/B	9 ~ 18	15	400	10	88.5	210
MOP06-12S24A/B	9 ~ 18	24	250	10	88.5	75
MOP06-12D05A/B	9 ~ 18	±5	±600	10	85	± 860
MOP06-12D12A/B	9 ~ 18	±12	±250	10	89	± 150
MOP06-12D15A/B	9 ~ 18	±15	±200	10	88	± 110
MOP06-24S3P3A/B	18 ~ 36	3.3	1800	6	83	2100
MOP06-24S05A/B	18 ~ 36	5	1200	6	86.0	1500
MOP06-24S12A/B	18 ~ 36	12	500	6	89	260
MOP06-24S15A/B	18 ~ 36	15	400	6	89	210
MOP06-24S24A/B	18 ~ 36	24	250	6	88.5	75
MOP06-24D05A/B	18 ~ 36	±5	±600	6	85	± 860
MOP06-24D12A/B	18 ~ 36	±12	±250	6	88.5	± 150
MOP06-24D15A/B	18 ~ 36	±15	±200	6	88.5	± 110
MOP06-48S3P3A/B	36 ~ 75	3.3	1800	4	82.5	2100
MOP06-48S05A/B	36 ~ 75	5	1200	4	86.5	1500
MOP06-48S12A/B	36 ~ 75	12	500	4	88	260
MOP06-48S15A/B	36 ~ 75	15	400	4	88.5	210
MOP06-48S24A/B	36 ~ 75	24	250	4	88	75
MOP06-48D05A/B	36 ~ 75	±5	±600	4	85	± 860
MOP06-48D12A/B	36 ~ 75	±12	±250	4	88	± 150
MOP06-48D15A/B	36 ~ 75	±15	±200	4	87	± 110
MOP06-24S3P3WA/B	9 ~ 36	3.3	1800	6	83	2100
MOP06-24S05WA/B	9 ~ 36	5	1200	6	86.0	1500
MOP06-24S12WA/B	9 ~ 36	12	500	6	89	260
MOP06-24S15WA/B	9 ~ 36	15	400	6	89	210
MOP06-24S24WA/B	9 ~ 36	24	250	6	88.5	75
MOP06-24D05WA/B	9 ~ 36	±5	±600	6	85	± 860
MOP06-24D12WA/B	9 ~ 36	±12	±250	6	88.5	± 150
MOP06-24D15WA/B	9 ~ 36	±15	±200	6	88.5	± 110
MOP06-48S3P3WA/B	18 ~ 75	3.3	1800	4	82.5	2100
MOP06-48S05WA/B	18 ~ 75	5	1200	4	86.5	1500
MOP06-48S12WA/B	18 ~ 75	12	500	4	88	260
MOP06-48S15WA/B	18 ~ 75	15	400	4	88.5	210
MOP06-48S24WA/B	18 ~ 75	24	250	4	88	75
MOP06-48D05WA/B	18 ~ 75	±5	±600	4	85	± 860
MOP06-48D12WA/B	18 ~ 75	±12	±250	4	88	± 150
MOP06-48D15WA/B	18 ~ 75	±15	±200	4	87	± 110

INPUT SPECIFICATIONS						
Parameter	Conditions		Min.	Typ.	Max.	Unit
Operating input voltage range	2:1	5Vin(nom)	4.5	5	9	VDC
		12Vin(nom)	9	12	18	
	(W) 4:1	24Vin(nom)	18	24	36	VDC
		48Vin(nom)	36	48	75	
Start up voltage	2:1	5Vin(nom)			4.5	VDC
		12Vin(nom)			9	
	(W) 4:1	24Vin(nom)			18	VDC
		48Vin(nom)			36	
Shutdown voltage	2:1	5Vin(nom)	3	4	4.4	VDC
		12Vin(nom)	7	8	8.8	
	(W) 4:1	24Vin(nom)	15	16	17.5	VDC
		48Vin(nom)	31.5	33	34.5	
Start up time	Constant resistive load	Power up		30		ms
Input surge voltage	3 second, max.	2:1	5Vin(nom)		16	VDC
	3 second, max.	(W) 4:1	24Vin(nom)		50	VDC
Input filter					Pi type	
Remote ON/OFF (Only for B-type Pin connection option)	Referred to -Vin pin	DC-DC ON			OPEN or 0 ~ 1.2VDC	
		DC-DC OFF			2.2 ~ 12VDC	
		Input current of Ctrl pin	-0.5		1	mA
		Remote off input current		2.5		mA

OUTPUT SPECIFICATIONS						
Parameter	Conditions		Min.	Typ.	Max.	Unit
Voltage accuracy			-1.0		+1.0	%
Line regulation	Low Line to High Line at Full Load	Single	-0.2		+0.2	%
		Dual	-0.5		+0.5	%
Load regulation	No Load to Full Load	Single	-0.2		+0.2	%
		Dual	-1.0		+1.0	%
Cross regulation	Asymmetrical load 25%/100% FL	Dual	-5.0		+5.0	%
Voltage adjustability (Only for B-type Pin connection option)	Single output	3.3Vout, 5Vout, 12Vout	-10		+10	%
		15Vout, 24Vout	-10		+20	
Ripple and noise	Dual output	±5Vout, ±12Vout, ±15Vout	-10		+10	mVp-p
		Measured by 20MHz bandwidth				
Temperature coefficient	With a 10µF/25V X7R MLCC	3.3Vout, 5Vout		30		%
		12Vout, 15Vout		40		
	With a 4.7µF/50V X7R MLCC	24Vout		50		
Transient response recovery time	25% load step change			250		µs
Over voltage protection	Single	3.3Vout	3.7		5	VDC
		5Vout	5.6		7.0	
		12Vout	13.5		16	
		15Vout	18.3		22.0	
		24Vout	29.1		34.5	
	Dual	5Vout	5.6		7.0	VDC
		12Vout	13.5		18.2	VDC
		15Vout	17.0		22.0	VDC
Over load protection	% of Iout rated; Hiccup mode			150		%
Short circuit protection						Continuous, automatics recovery

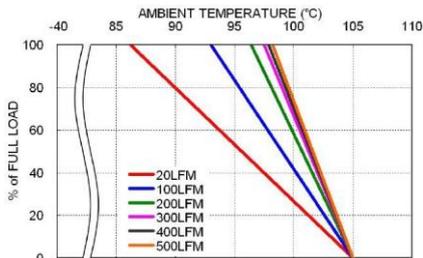
<b>GENERAL SPECIFICATIONS</b>						
<b>Parameter</b>	<b>Conditions</b>	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	<b>Unit</b>	
Isolation voltage	1 minute Input to Output Reinforced insulation for 300VAC working voltage	3000			VAC	
Isolation resistance	500VDC	10			GΩ	
Isolation capacitance			12	17	pF	
Leakage current	240VAC,60Hz			2	μA	
Switching frequency		225	250	275	kHz	
Clearance/Creepage		6.6			mm	
Safety approvals	IEC/ EN/ ANSI/ AAMI ES 60601-1 IEC/ EN/ UL 62368-1				UL:E360199 UL:E 193009 CB: UL(Demko)	
Case material					Non-conductive black plastic	
Base material					Non-conductive black plastic	
Potting material					Silicone (UL94 V-0)	
Weight					14g (0.48oz)	
MTBF	MIL-HDBK-217F, Full load				4.718 x 10 <sup>6</sup> hrs	

<b>ENVIRONMENTAL SPECIFICATIONS</b>						
<b>Parameter</b>	<b>Conditions</b>	<b>Min.</b>	<b>Typ.</b>	<b>Max.</b>	<b>Unit</b>	
Operating ambient temperature	Without derating	-40		+88	°C	
	With derating	+88		+105	°C	
Maximum case temperature				105	°C	
Storage temperature range		-55		+125	°C	
Thermal impedance			18		°C/W	
Operating altitude				5000	m	
Thermal shock					MIL-STD-810F	
Vibration					MIL-STD-810F	
Relative humidity					5% to 95% RH	

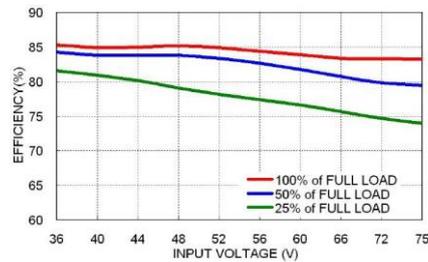
EMC SPECIFICATIONS			
Parameter	Conditions		Level
EMI	EN55011, EN55032, EN60601-1-2	Without external filter	Class A
		With external filter	Class B
EMS	EN55024 and EN60601-1-2		
ESD	EN61000-4-2	Air $\pm 15\text{kV}$ and Contact $\pm 8\text{kV}$	Perf. Criteria A
Radiated immunity	EN61000-4-3	10 V/m	Perf. Criteria A
Fast transient	EN61000-4-4	$\pm 2\text{kV}$	Perf. Criteria A
	MOP06-05□□□□□	With an aluminum electrolytic capacitor (Nippon Chemi-con KY series, 1000 $\mu\text{F}/25\text{V}$ ) and a reverse diode (Vishay V10P45) to connect in parallel.	
	MOP06-12□□□□□□	With an aluminum electrolytic capacitor (Nippon Chemi-con KY series, 470 $\mu\text{F}/50\text{V}$ ).	
	MOP06-24□□□□□□		
	MOP06-48□□□□□□	With an aluminum electrolytic capacitor (Nippon Chemi-con KY series, 330 $\mu\text{F}/100\text{V}$ ).	
Surge	EN61000-4-5	$\pm 2\text{kV}$	Perf. Criteria A
	MOP06-05□□□□□	With an aluminum electrolytic capacitor (Nippon Chemi-con KY series, 1000 $\mu\text{F}/25\text{V}$ ) and a reverse diode (Vishay V10P45) to connect in parallel.	
	MOP06-12□□□□□□	With an aluminum electrolytic capacitor (Nippon Chemi-con KY series, 470 $\mu\text{F}/50\text{V}$ ).	
	MOP06-24□□□□□□		
	MOP06-48□□□□□□	With an aluminum electrolytic capacitor (Nippon Chemi-con KY series, 330 $\mu\text{F}/100\text{V}$ ).	
Conducted immunity	EN61000-4-6	10 Vr.m.s	Perf. Criteria A
Power frequency magnetic field	EN61000-4-8	100A/m continuous; 1000A/m 1 second	Perf. Criteria A

**CAUTION:** This power module is not internally fused. An input line fuse must always be used.

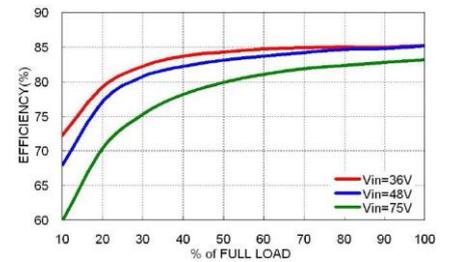
## CHARACTERISTIC CURVE



MOP06-48S05WA Derating Curve



MOP06-48S05WA Efficiency vs. Input Voltage



MOP06-48S05WA Efficiency vs. Output Load

## FUSE CONSIDERATION

This power module is not internally fused. An input line fuse must always be used.

This encapsulated power module can be used in a wide variety of applications, ranging from simple stand-alone operation to an integrated part of sophisticated power architecture.

To maximum flexibility, internal fusing is not included; however, to achieve maximum safety and system protection, always use an input line fuse.

The input line fuse suggest as below :

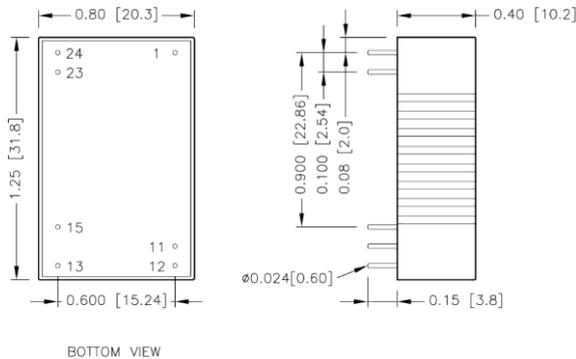
Model	Fuse Rating (A)	Fuse Type
MOP06-05S□□, MOP06-05D□□	2.5	Slow-Blow
MOP06-12S□□, MOP06-12D□□	1.25	Slow-Blow
MOP06-24S□□, MOP06-24D□□	0.63	Slow-Blow
MOP06-48S□□, MOP06-48D□□	0.315	Slow-Blow

Model	Fuse Rating (A)	Fuse Type
MOP06-24S□□W, MOP06-24D□□W	1.25	Slow-Blow
MOP06-48S□□W, MOP06-48D□□W	0.63	Slow-Blow

The table based on the information provided in this data sheet on inrush energy and maximum DC input current at low Vin.

## MECHANICAL DRAWING

### A TYPE



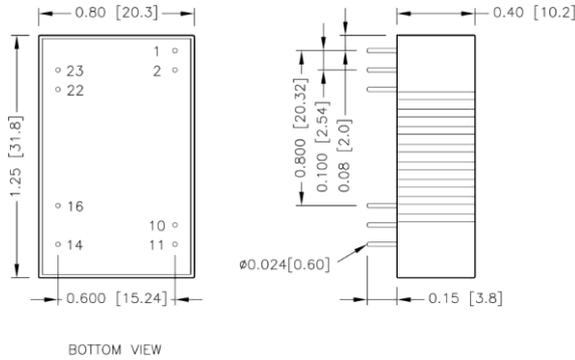
### PIN CONNECTION

PIN	SINGLE	DUAL
1	+ Vin	+ Vin
11	No pin	Common
12	-Vout	No pin
13	+Vout	-Vout
15	No pin	+Vout
23	- Vin	- Vin
24	- Vin	- Vin

1. All dimensions in inch [mm]
2. Tolerance :x.xx±0.02 [x.x±0.5]  
x.xxx±0.01 [x.xx±0.25]
3. Pin dimension tolerance ±0.004[0.10]

## MECHANICAL DRAWING(CONTINUED)

### B TYPE



### PIN CONNECTION

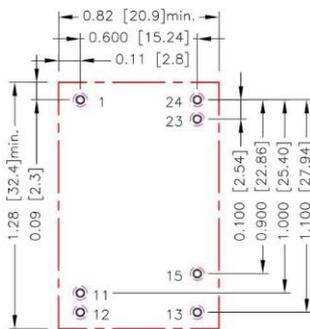
PIN	SINGLE	DUAL
1	Ctrl (Option) / No pin*	Ctrl (Option) / No pin*
2	- Vin	- Vin
10	Trim (Option) / No pin*	Trim (Option) / No pin*
11	No pin / NC **	-Vout
14	+Vout	+Vout
16	-Vout	Common
22	+Vin	+Vin
23	+Vin	+Vin

*	If don't choose Ctrl or Trim option, there is no pin on the corresponding pin number.
**	Pin 11 is "No pin" for MOP06-□□S□□□ <b>B-T</b> MOP06-□□S□□□ <b>B-PT</b>
	Pin 11 is "NC" for MOP06-□□S□□□ <b>B</b> MOP06-□□S□□□ <b>B-P</b>

- All dimensions in inch [mm]
- Tolerance :x.xx±0.02 [x.x±0.5]  
x.xxx±0.01 [x.xx±0.25]
- Pin dimension tolerance ±0.004[0.10]

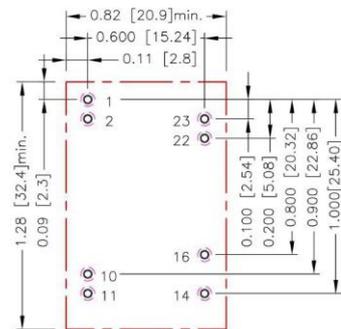
## RECOMMENDED PAD LAYOUT

### A TYPE



All dimensions in inch[mm]  
 Pad size(lead free recommended)  
 Through hole 1.11.12.13.15.23.24:  $\phi 0.035 [0.90]$   
 Top view pad 1.11.12.13.15.23.24:  $\phi 0.044 [1.13]$   
 Bottom view pad 1.11.12.13.15.23.24:  $\phi 0.071 [1.80]$

### B TYPE



All dimensions in inch[mm]  
 Pad size(lead free recommended)  
 Through hole 1.2.10.11.14.16.22.23:  $\phi 0.035 [0.90]$   
 Top view pad 1.2.10.11.14.16.22.23:  $\phi 0.044 [1.13]$   
 Bottom view pad 1.2.10.11.14.16.22.23:  $\phi 0.071 [1.80]$

- \* There should be at least 8mm distance between primary and secondary circuit.
- \*\* For further information, please contact : [sales@powermateusa.com](mailto:sales@powermateusa.com).

## THERMAL CONSIDERATIONS

The power module operates in a variety of thermal environments.

However, sufficient cooling should be provided to help ensure reliable operation of the unit.

Heat is removed by conduction, convection, and radiation to the surrounding Environment.

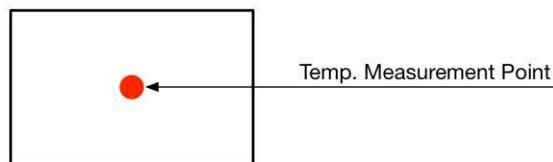
Proper cooling can be verified by measuring the point as the figure below.

The temperature at this location should not exceed "Maximum case temperature".

When Operating, adequate cooling must be provided to maintain the test point temperature at or below "Maximum case temperature".

You can limit this Temperature to a lower value for extremely high reliability.

- Thermal test condition with vertical direction by natural convection (20LFM).



TOP VIEW

## OUTPUT VOLTAGE ADJUSTMENT

It allows the user to increase or decrease the output voltage of the module.

This is accomplished by connecting an external resistor between the Trim pin and either the +Vout or -Vout pins.

With an external resistor between the Trim and -Output pin, the output voltage increases.

With an external resistor between the Trim and +Output pin, the output voltage decreases.

The external Trim resistor needs to be at least 1/16W of rated power.

### Trim Up Equation

$$R_U = \left[ \frac{G \times L}{(V_{o,up} - L - K)} - H \right] \Omega$$

### Trim Down Equation

$$R_D = \left[ \frac{(V_{o,down} - L) \times G}{(V_o - V_{o,down})} - H \right] \Omega$$

### Trim constants

Module	G	H	K	L
□□S3P3B-□T、□□S3P3WB-□T	5110	2050	0.8	2.5
□□S05B-□T、□□S05WB-□T	5110	2050	2.5	2.5
□□S12B-□T、□□S12WB-□T	10000	5110	9.5	2.5
□□S15B-□T、□□S15WB-□T	10000	5110	12.5	2.5
□□S24B-□T、□□S24WB-□T	56000	13000	21.5	2.5

Module	G	H	K	L
□□D05B-□T、□□D05WB-□T	3000	3000	7.5	2.5
□□D12B-□T、□□D12WB-□T	56000	13000	21.5	2.5
□□D15B-□T、□□D15WB-□T	30000	13000	27.5	2.5

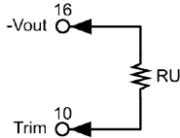
**OUTPUT VOLTAGE ADJUSTMENT(CONTINUED)**

**EXTERNAL OUTPUT TRIMMING**

Output can be externally trimmed by using the method shown below.

Trim-up

**Single Output**



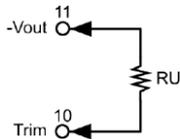
□□S3P3B-□T, □□S3P3WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	3.333	3.366	3.399	3.432	3.465	3.498	3.531	3.564	3.597	3.630
RU (kΩ)	385.071	191.511	126.990	94.730	75.374	62.470	53.253	46.340	40.963	36.662

□□S05B-□T, □□S05WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	5.050	5.100	5.150	5.200	5.250	5.300	5.350	5.400	5.450	5.500
RU (kΩ)	253.450	125.700	83.117	61.825	49.050	40.533	34.450	29.888	26.339	23.500

**Dual Output**



□□S12B-□T, □□S12WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	12.120	12.240	12.360	12.480	12.600	12.720	12.840	12.960	13.080	13.200
RU (kΩ)	203.223	99.057	64.334	46.973	36.557	29.612	24.652	20.932	18.038	15.723

□□S15B-□T, □□S15WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	15.150	15.300	15.450	15.600	15.750	15.900	16.050	16.200	16.350	16.500
RU (kΩ)	161.557	78.223	50.446	36.557	28.223	22.668	18.700	15.723	13.409	11.557

ΔV (%)	11	12	13	14	15	16	17	18	19	20
Vout (V)	16.650	16.800	16.950	17.100	17.250	17.400	17.550	17.700	17.850	18.000
RU (kΩ)	10.042	8.779	7.711	6.795	6.001	5.307	4.694	4.149	3.662	3.223

□□S24B-□T, □□S24WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	24.240	24.480	24.720	24.960	25.200	25.440	25.680	25.920	26.160	26.400
RU (kΩ)	570.333	278.667	181.444	132.833	103.667	84.222	70.333	59.917	51.815	45.333

ΔV (%)	11	12	13	14	15	16	17	18	19	20
Vout (V)	26.640	26.880	27.120	27.360	27.600	27.840	28.080	28.320	28.560	28.800
RU (kΩ)	40.030	35.611	31.872	28.667	25.889	23.458	21.314	19.407	17.702	16.167

□□D05B-□T, □□D05WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	±5.050	±5.100	±5.150	±5.200	±5.250	±5.300	±5.350	±5.400	±5.450	±5.500
RU (kΩ)	72.000	34.500	22.000	15.750	12.000	9.500	7.714	6.375	5.333	4.500

□□D12B-□T, □□D12WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	±12.120	±12.240	±12.360	±12.480	±12.600	±12.720	±12.840	±12.960	±13.080	±13.200
RU (kΩ)	570.333	278.667	181.444	132.833	103.667	84.222	70.333	59.917	51.815	45.333

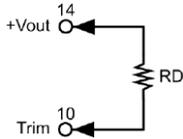
□□D15B-□T, □□D15WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	±15.150	±15.300	±15.450	±15.600	±15.750	±15.900	±16.050	±16.200	±16.350	±16.500
RU (kΩ)	237.000	112.000	70.333	49.500	37.000	28.667	22.714	18.250	14.778	12.000

OUTPUT VOLTAGE ADJUSTMENT(CONTINUED)

Trim-down

Single & Dual Output



□□S3P3B-□T, □□S3P3WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	3.267	3.234	3.201	3.168	3.135	3.102	3.069	3.036	3.003	2.970
RD (kΩ)	116.719	54.779	34.133	23.810	17.616	13.486	10.537	8.325	6.604	5.228

□□S05B-□T, □□S05WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	4.950	4.900	4.850	4.800	4.750	4.700	4.650	4.600	4.550	4.500
RD (kΩ)	248.340	120.590	78.007	56.715	43.940	35.423	29.340	24.778	21.229	18.390

□□S12B-□T, □□S12WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	11.880	11.760	11.640	11.520	11.400	11.280	11.160	11.040	10.920	10.800
RD (kΩ)	776.557	380.723	248.779	182.807	143.223	116.834	97.985	83.848	72.853	64.057

□□S15B-□T, □□S15WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	14.850	14.700	14.550	14.400	14.250	14.100	13.950	13.800	13.650	13.500
RD (kΩ)	818.223	401.557	262.668	193.223	151.557	123.779	103.938	89.057	77.483	68.223

□□S24B-□T, □□S24WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	23.760	23.520	23.280	23.040	22.800	22.560	22.320	22.080	21.840	21.600
RD (kΩ)	4947.667	2439.333	1603.222	1185.167	934.333	767.111	647.667	558.083	488.407	432.667

□□D05B-□T, □□D05WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	±4.950	±4.900	±4.850	±4.800	±4.750	±4.700	±4.650	±4.600	±4.550	±4.500
RD (kΩ)	219.000	106.500	69.000	50.250	39.000	31.500	26.143	22.125	19.000	16.500

□□D12B-□T, □□D12WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	±11.880	±11.760	±11.640	±11.520	±11.400	±11.280	±11.160	±11.040	±10.920	±10.800
RD (kΩ)	4947.667	2439.333	1603.222	1185.167	934.333	767.111	647.667	558.083	488.407	432.667

□□D15B-□T, □□D15WB-□T

ΔV (%)	1	2	3	4	5	6	7	8	9	10
Vout (V)	±14.850	±14.700	±14.550	±14.400	±14.250	±14.100	±13.950	±13.800	±13.650	±13.500
RD (kΩ)	2707.000	1332.000	873.667	644.500	507.000	415.333	349.857	300.750	262.556	232.000