

# 37530-PS

## 20W Adjustable, + & - Output Buck-Boost DC/DC Converter

Adjustable DC-DC + & - output Boost-Buck Converter

**NOTE:** V- cannot be used alone

V+ can be used alone

Input voltage: ~4-30V

Output + & -: ~3-30VDC (Both + & - the Same)

Maximum output power: 20W (See Charts)

Conversion efficiency: 70-90%

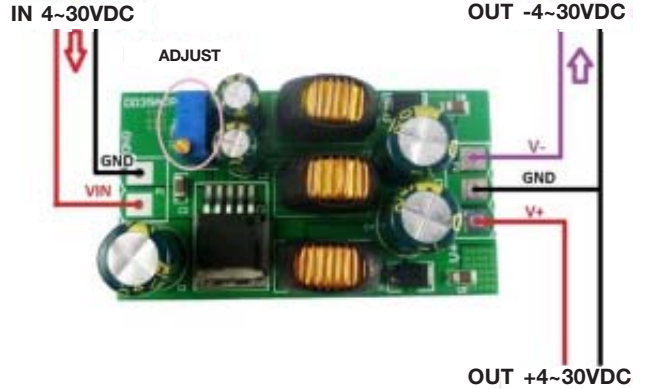
Quiescent current: ~3mA

Accuracy: ~ ±5%

(Minimum Recommended Load:10mA on Both)

Operating ambient temperature: ~-40 to ~+85°C

**L:** 2-3/8" **W:** 1-5/16" **H:** 5/8" **WT:** .06



5V/+5V 输出

Measurement results are for reference only(Positive Voltage Only)

Input Voltage	Input Current	Output Voltage	Output Current
3.7V	1.12A	5V	0.60A
4.2V	1.36A	5V	0.80A
5V	2.22A	5V	1.30A
6V	2.00A	5V	1.50A
7.5V	2.12A	5V	2.00A
9V	2.00A	5V	2.40A
12V	1.72A	5V	2.80A
15V	1.42A	5V	3.00A
18V	1.14A	5V	3.00A
24V	0.84A	5V	3.00A

6V/+6V 输出

Measurement results are for reference only(Positive Voltage Only)

Input Voltage	Input Current	Output Voltage	Output Current
3.7V	2.00A	6V	0.72A
4.2V	2.00A	6V	0.86A
5V	2.60A	6V	1.20A
6V	2.50A	6V	1.48A
7.5V	2.00A	6V	1.65A
9V	1.96A	6V	2.00A
12V	1.36A	6V	2.00A
15V	1.17A	6V	2.20A
18V	1.10A	6V	2.50A
24V	0.82A	6V	2.50A

Measurement results are for reference only(Positive and Negative Voltage)

Input Voltage	Input Current	Output Voltage	Output Current
3.7V	1.12A	±5V	0.30A
4.2V	1.36A	±5V	0.40A
5V	2.22A	±5V	0.65A
6V	2.00A	±5V	0.75A
7.5V	2.12A	±5V	0.90A
9V	2.00A	±5V	1.00A
12V	1.72A	±5V	1.20A
15V	1.42A	±5V	1.30A
18V	1.14A	±5V	1.30A
24V	0.84A	±5V	1.30A

Measurement results are for reference only(Positive and Negative Voltage)

Input Voltage	Input Current	Output Voltage	Output Current
3.7V	2.00A	±6V	0.35A
4.2V	2.00A	±6V	0.40A
5V	2.60A	±6V	0.58A
6V	2.50A	±6V	0.70A
7.5V	2.00A	±6V	0.81A
9V	1.96A	±6V	0.91A
12V	1.36A	±6V	0.91A
15V	1.17A	±6V	1.00A
18V	1.10A	±6V	1.10A
24V	0.82A	±6V	1.10A

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**MARLIN P. JONES & ASSOC., INC.**

P.O. Box 530400 Lake Park, FL 33403

800-652-6733 FAX 561-844-8764

WWW.MPJA.COM

# 37530-PS

## 9V/49V 輸出

Measurement results are for reference only(Positive Voltage Only)

Input Voltage	Input Current	Output Voltage	Output Current
3.7V	2.50A	9V	0.60A
4.2V	2.50A	9V	0.65A
5V	2.50A	9V	0.80A
6V	2.40A	9V	1.00A
7.5V	2.50A	9V	1.37A
9V	2.00A	9V	1.40A
12V	2.06A	9V	2.00A
15V	1.65A	9V	2.00A
18V	1.30A	9V	2.00A
24V	1.06A	9V	2.20A

Measurement results are for reference only(Positive and Negative Voltage)

Input Voltage	Input Current	Output Voltage	Output Current
3.7V	2.50A	±9V	0.30A
4.2V	2.50A	±9V	0.31A
5V	2.50A	±9V	0.38A
6V	2.40A	±9V	0.48A
7.5V	2.50A	±9V	0.65A
9V	2.00A	±9V	0.66A
12V	2.06A	±9V	0.96A
15V	1.65A	±9V	0.96A
18V	1.30A	±9V	0.96A
24V	1.06A	±9V	1.00A

## 15V/±15V 輸出

Measurement results are for reference only(Positive Voltage Only)

Input Voltage	Input Current	Output Voltage	Output Current
3.7V	2.00A	15V	0.35A
4.2V	2.00A	15V	0.41A
5V	2.00A	15V	0.50A
6V	2.00A	15V	0.60A
7.5V	2.20A	15V	0.80A
9V	2.25A	15V	1.00A
12V	2.00A	15V	1.25A
15V	2.00A	15V	1.60A
18V	1.70A	15V	1.60A
24V	1.28A	15V	1.60A

Measurement results are for reference only(Positive and Negative Voltage)

Input Voltage	Input Current	Output Voltage	Output Current
3.7V	2.00A	±15V	0.15A
4.2V	2.00A	±15V	0.18A
5V	2.00A	±15V	0.22A
6V	2.00A	±15V	0.28A
7.5V	2.20A	±15V	0.38A
9V	2.25A	±15V	0.46A
12V	2.00A	±15V	0.58A
15V	2.00A	±15V	0.75A
18V	1.70A	±15V	0.75A
24V	1.28A	±15V	0.75A

## 12V/±12V 輸出

Measurement results are for reference only(Positive Voltage Only)

Input Voltage	Input Current	Output Voltage	Output Current
3.7V	2.20A	12V	0.45A
4.2V	2.00A	12V	0.50A
5V	2.25A	12V	0.65A
6V	2.25A	12V	0.80A
7.5V	2.20A	12V	1.00A
9V	2.20A	12V	1.22A
12V	2.20A	12V	1.65A
15V	1.70A	12V	1.65A
18V	1.40A	12V	1.65A
24V	1.00A	12V	1.65A

Measurement results are for reference only(Positive and Negative Voltage)

Input Voltage	Input Current	Output Voltage	Output Current
3.7V	2.20A	±12V	0.21A
4.2V	2.00A	±12V	0.23A
5V	2.25A	±12V	0.31A
6V	2.25A	±12V	0.38A
7.5V	2.20A	±12V	0.48A
9V	2.20A	±12V	0.56A
12V	2.20A	±12V	0.78A
15V	1.70A	±12V	0.79A
18V	1.40A	±12V	0.79A
24V	1.00A	±12V	0.79A

## 24V/±24V 輸出

Measurement results are for reference only(Positive and Negative Voltage)

Input Voltage	Input Current	Output Voltage	Output Current
3.7V	2.00A	24V	0.20A
4.2V	1.65A	24V	0.20A
5V	2.00A	24V	0.30A
6V	2.20A	24V	0.40A
7.5V	2.15A	24V	0.50A
9V	2.35A	24V	0.65A
12V	2.38A	24V	0.90A
15V	2.12A	24V	0.90A
18V	1.42A	24V	0.80A
24V	1.34A	24V	1.00A

Measurement results are for reference only(Positive and Negative Voltage)

Input Voltage	Input Current	Output Voltage	Output Current
3.7V	2.00A	±24V	0.10A
4.2V	1.65A	±24V	0.10A
5V	2.00A	±24V	0.14A
6V	2.20A	±24V	0.18A
7.5V	2.15A	±24V	0.22A
9V	2.35A	±24V	0.30A
12V	2.38A	±24V	0.42A
15V	2.12A	±24V	0.42A
18V	1.42A	±24V	0.38
24V	1.34A	±24V	0.47A

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