

Standard Type DC-DC Converter (1.5W · 3W · 6W · 10W)

We can comply with various types of converters including DIP type and SIP type.

Characteristics

- (1) Thin and lightweight
- (2) Excellent heat radiation and miniaturization due to alumina substrate
- (3) Excellent isolation ability between input and output
- (4) No attachment necessary
- (5) Circuit with built-in excess current protection

Specification

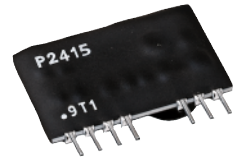
Output Power	Input Voltage	Output Voltage	Output Current	Efficiency	Part Number	
1.5W	4.5 ~ 7.2V (5V _{TYP})	5V	300mA	68%	ZHRM1R50505□	
		12V	125mA	70%	0512□	
		15V	100mA	71%	0515□	
	8 ~ 16.5V (12V _{TYP})	5V	300mA	72%	1205□	
		12V	125mA	73%	1212□	
		15V	100mA	74%	1215□	
	18 ~ 32V (24V _{TYP})	5V	300mA	73%	2405□	
		12V	125mA	76%	2412□	
		15V	100mA	76%	2415□	
	3W	4.5 ~ 7.2V (5V _{TYP})	±12V	±63mA	70%	ZHRP1R50512□
			±15V	±50mA	68%	0515□
			±12V	±63mA	71%	1212□
8 ~ 16.5V (12V _{TYP})		±15V	±50mA	73%	1215□	
		±12V	±63mA	72%	2412□	
		±15V	±50mA	74%	2415□	
6W		4.5 ~ 7.2V (5V _{TYP})	5V	600mA	72%	ZHRM0300505□
			12V	250mA	77%	0512□
			15V	200mA	77%	0515□
		8 ~ 16.5V (12V _{TYP})	5V	600mA	74%	1205□
			12V	250mA	80%	1212□
			15V	200mA	80%	1215□
	18 ~ 32V (24V _{TYP})	5V	600mA	76%	2405□	
		12V	250mA	81%	2412□	
		15V	200mA	81%	2415□	
	10W	4.5 ~ 7.2V (5V _{TYP})	±12V	±125mA	72%	ZHRP0300512□
			±15V	±100mA	75%	0515□
			±12V	±125mA	74%	1212□
8 ~ 16.5V (12V _{TYP})		±15V	±100mA	75%	1215□	
		±12V	±125mA	74%	2412□	
		±15V	±100mA	76%	2415□	
3W		4.5 ~ 7.2V (5V _{TYP})	5V	1.0A	76%	ZHRM0600505C
			12V	0.5A	76%	0512C
			15V	0.4A	76%	0515C
		8 ~ 16.5V (12V _{TYP})	5V	1.2A	82%	1205C
			12V	0.5A	84%	1212C
			15V	0.4A	84%	1215C
	18 ~ 32V (24V _{TYP})	5V	1.2A	83%	2405C	
		12V	0.5A	86%	2412C	
		15V	0.4A	86%	2415C	
	6W	4.5 ~ 7.2V (5V _{TYP})	±12V	±0.25A	79%	ZHRP0600512C
			±15V	±0.20A	79%	0515C
			±12V	±0.25A	84%	1212C
8 ~ 16.5V (12V _{TYP})		±15V	±0.20A	84%	1215C	
		±12V	±0.25A	85%	2412C	
		±15V	±0.20A	85%	2415C	
10W		4.5 ~ 7.2V (5V _{TYP})	5V	1.60A	76%	ZHRM1000505C
			12V	0.70A	76%	0512C
			15V	0.60A	76%	0515C
		8 ~ 16.5V (12V _{TYP})	5V	2.00A	83%	1205C
			12V	0.84A	83%	1212C
			15V	0.67A	83%	1215C
	18 ~ 32V (24V _{TYP})	5V	2.00A	84%	2405C	
		12V	0.84A	84%	2412C	
		15V	0.67A	84%	2415C	
	3W	4.5 ~ 7.2V (5V _{TYP})	±12V	±0.35A	79%	ZHRP1000512C
			±15V	±0.30A	79%	0515C
			±12V	±0.42A	84%	1212C
8 ~ 16.5V (12V _{TYP})		±15V	±0.34A	85%	1215C	
		±12V	±0.42A	84%	2412C	
		±15V	±0.34A	85%	2415C	

□: Style code

Output Power	Style No.	Measurement				Style Code
		L	W	H	S	
1.5W	①	26.5 ^{±0.2}	17.4 ^{±0.2}	8.1 ^{MAX}	24.95 ^{±0.5}	B
	②	28.0 ^{MAX}	18.7 ^{MAX}	8.8 ^{MAX}	24.95 ^{±0.5}	C
	③	26.0 ^{MAX}	16.5 ^{MAX}	7.3 ^{MAX}	24.95 ^{±0.5}	D
	④	—	26.5 ^{MAX}	18.0 ^{MAX}	—	E
		T=10.5MAX (Single Output) T=9.0MAX (Double Output)				
3W	①	34.5 ^{±0.2}	24.7 ^{±0.2}	8.8 ^{MAX}	32.95 ^{±0.5}	B
	②	36.0 ^{MAX}	26.0 ^{MAX}	9.5 ^{MAX}	32.95 ^{±0.5}	C
	③	34.0 ^{MAX}	23.5 ^{MAX}	7.5 ^{MAX}	32.95 ^{±0.5}	D
	④	—	29.5 ^{MAX}	21.0 ^{MAX}	—	E
		T=11.0MAX				
6W	②	40.5 ^{±0.5}	25.8 ^{±0.5}	11.5 ^{MAX}	37.45 ^{±0.5}	C
10W	②	41.0 ^{±0.5}	31.8 ^{±0.5}	13.5 ^{MAX}	37.45 ^{±0.5}	C

Output Tolerance : ±5%
 Over Current Protection : Functions at 105% or more of the rated output current · Automatically restored
 Withstanding Voltage : Between input and output AC500V for 1minute 5mA

Insulation Resistance : Between input and output terminals DC500V, more than 100MΩ (25°C 70%)
 Operating Temperature/Humidity : -10 ~ +71°C 20 ~ 95%RH (No dewdrops)
 Storage Temperature/Humidity : -40 ~ +85°C 20 ~ 95%RH (No dewdrops)



■ Exterior and Measurement Map

DIP Type	<p>(1.5W)</p>	<p>(3W)</p>	<p>① Resin Case •1.5W · 3W Only •Flow Compliant</p> <p>② Steel Cover •Reduce Radiation Noise</p>
	<p>(6W)</p>	<p>(10W)</p>	
SIP Type	<p>(1.5W)</p>	<p>(3W)</p>	<p>③ Resin Coating •Low Cost •DIP Style</p> <p>④ Resin Coating •Low Cost •Horizontal Type, Space Saver</p>
	<p>(1.5W)</p>	<p>(3W)</p>	