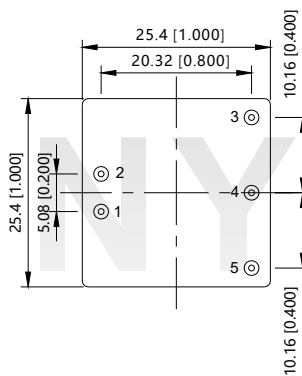
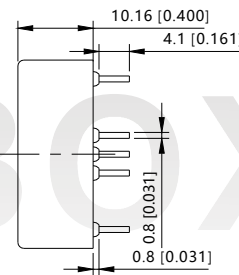


**6W DC/DC Module Power Supply**
**FEATURES**


- ★ Compact size, high power density
- ★ Operating temperature range: -40°C to +85°C
- ★ No-load input current as low as 5mA
- ★ I/O isolation test voltage 1.5K VDC
- ★ Low ripple & noise
- ★ RoHS Compliant
- ★ Industrial grade, high reliability

BW06-Axxxx series -----It is the 2:1 wide voltage input range provided by nyboxing for customers. Up to 88% Efficiency, 1500VDC isolated regulated power supply module, This product is widely used in medical treatment, industrial control, electric power, instrumentation, communication occasions, etc.

**Dimensions**

**Bottom View**

**Side View**

PIN	Function
1	-Vi
2	+Vi
3	+Vo
4	NP
5	-Vo

Note:  
 Unit:mm[inch]  
 General tolerances:±0.50[±0.020]  
 Pin:None

**Selection Guide**

Part No.	Input Voltage (VDC)	Nominal Output Voltage and Current	Efficiency (%) (Typ.) @ Full Load	Output Current (mA) (Min.)	Max. Capacitive Load (µF)
BW06-A1203	9~18V (Typ: 12VDC)	3.3V	1500mA	78%	10µF
BW06-A1205		5V	1200mA	79%	10µF
BW06-A1212		12V	500mA	80%	4.7µF
BW06-A1215		15V	400mA	81%	2.2µF
BW06-A1224		24V	250mA	83%	1µF
BW06-A2403	18~36V (Typ: 24VDC)	3.3V	1500mA	78%	10µF
BW06-A2405		5V	1200mA	79%	10µF
BW06-A2412		12V	500mA	80%	4.7µF
BW06-A2415		15V	400mA	81%	2.2µF
BW06-A2424		24V	250mA	83%	1µF

BW06-A4803	36~75V (Typ: 48VDC)	3.3V	1500mA	78%	10uF
BW06-A4805		5V	1200mA	79%	10uF
BW06-A4812		12V	500mA	80%	4.7uF
BW06-A4815		15V	400mA	81%	2.2uF
BW06-A4824		24V	250mA	83%	1uF

### Output Specifications

Item	Operating Conditions	Min	Typ	Max
Output Power		0	--	6W
Output Voltage Accuracy	100% load	--	±2%	--
Line Regulation	Input voltage change: ±1%	--	±0.2%	--
Load Regulation	10%~100% Load	--	±0.5%	--
Ripple & Noise*	20MHz bandwidth (peak-to-peak value)	--	100mV	--
Temperature Drift Coefficient	100% load	--	--	±0.03%/°C

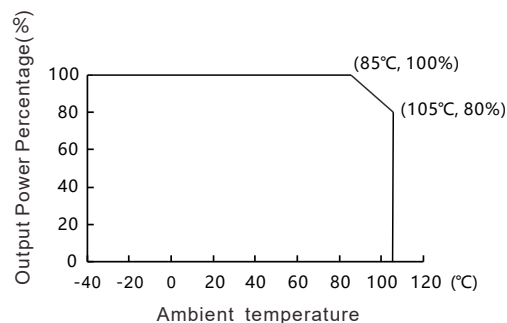
Note: \*Ripple and noise tested with "parallel cable" method, please see DC-DC Converter Application Notes for specific operation methods.

### General Specifications

Item	Operating Conditions	Min	Typ	Max
Insulation Voltage	Input-Output, Test for 1min	--	1500VDC	--
Operating Temperature		-40°C	--	+85°C
Storage Temperature		-55°C	--	+125°C
Storage Humidity		--	--	95%RH
Working Frequency		--	300KHz	--
MTBF	MIL-HDBK-217F, 25°C		3500,000h	
Casing Material		Metal aluminum shell		

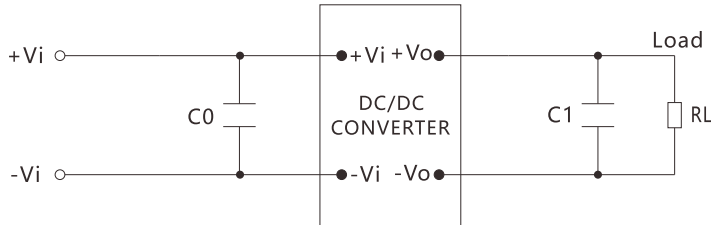
### Product Characteristic Curve

Temperature Derating Curve



## Design Reference

### 1 Typical application



#### Note

a. Ceramic capacitor or electrolytic capacitor is recommended for external capacitor of product input or output. Tantalum capacitors are not recommended, otherwise there is a certain failure risk.

b. The product does not support output and joint power or hot plug

Input Voltage	12V	24V	48V
C0	10 $\mu$ F	22 $\mu$ F	47 $\mu$ F

Output Voltage	3.3V	5V	12V	15V	24V
C1	220 $\mu$ F	220 $\mu$ F	100 $\mu$ F	100 $\mu$ F	100 $\mu$ F

## Safety precautions

1. If the product is not operated within the required load range, the product performance cannot be guaranteed to comply with all parameters in the datasheet;
2. Unless otherwise specified, parameters in this datasheet were measured under the conditions of  $T_a=25^{\circ}\text{C}$ , humidity $<75\%$  with nominal input voltage and rated output load;
3. All index testing methods in this datasheet are based on our Company's corporate standards;
4. We can provide product customization service, please contact our technicians directly for specific information;
5. For more product information, please visit our official website [www.gzny-boxing.com](http://www.gzny-boxing.com) or email us ( [sales@gzny-boxing.com](mailto:sales@gzny-boxing.com) ).