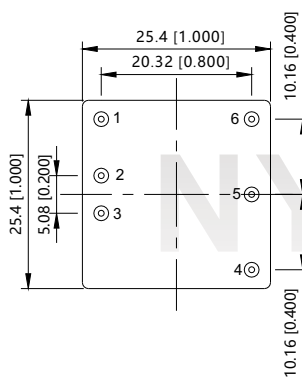
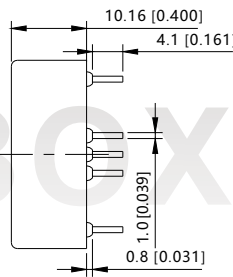


15W DC/DC Module Power Supply
FEATURES


- ★ 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

V(U)RBxxYMD-15R3 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	Funcion
1	Ctrl
2	-Vi
3	+Vi
4	+Vo
5	Trim
6	-Vo

Note:

Unit:mm[inch]

General tolerances:±0.50[±0.020]

Pin:None

Selection Guide

Part No.	Input Voltage(VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency(%) (Typ)
VRB1203YMD-15WR3	9~18V (Typ: 12VDC)	3.3V	3000mA	78%
VRB1205YMD-15WR3		5V	3000mA	78%
VRB1212YMD-15WR3		12V	1250mA	79%
VRB1215YMD-15WR3		15V	1000mA	80%
VRB1224YMD-15WR3		24V	625mA	82%
VRB2403YMD-15WR3	18~36V (Typ: 24VDC)	3.3V	3000mA	78%
VRB2405YMD-15WR3		5V	3000mA	78%
VRB2412YMD-15WR3		12V	1250mA	79%
VRB2415YMD-15WR3		15V	1000mA	80%
VRB2424YMD-15WR3		24V	625mA	82%

VRB4803YMD-15WR3		3.3V	3000mA	78%
VRB4805YMD-15WR3	36~75V (Typ: 48VDC)	5V	3000mA	78%
VRB4812YMD-15WR3		12V	1250mA	79%
VRB4815YMD-15WR3		15V	1000mA	80%
VRB4824YMD-15WR3		24V	625mA	82%
URB2403YMD-15WR3		3.3V	3000mA	78%
URB2405YMD-15WR3	9~36V	5V	3000mA	79%
URB2412YMD-15WR3		12V	1250mA	80%
URB2415YMD-15WR3		15V	1000mA	81%
URB2424YMD-15WR3		24V	625mA	83%
URB4803YMD-15WR3		3.3V	3000mA	78%
URB4805YMD-15WR3	18~75V	5V	3000mA	79%
URB4812YMD-15WR3		12V	1250mA	80%
URB4815YMD-15WR3		15V	1000mA	81%
URB4824YMD-15WR3		24V	625mA	83%

Output Specifications

Item	Operating Conditions	Min	Typ	Max
Output Power		0	--	15W
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

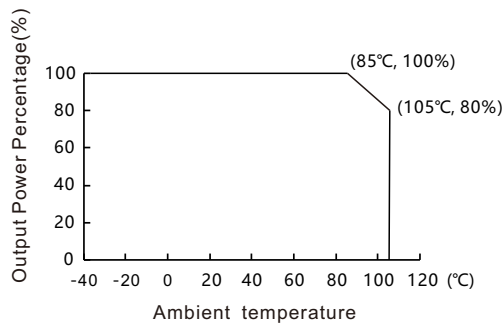
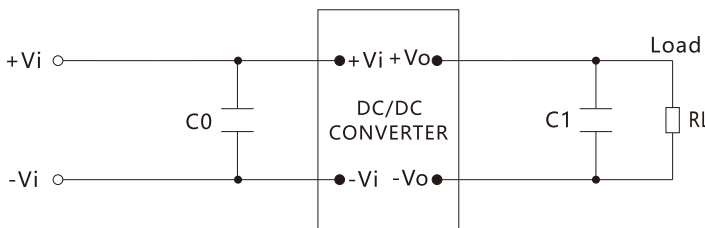
Note: *Ripple and noise tested with "parallel cable" method, please see DC-DC Converter Application Notes for specific operation methods.

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	100μF	100μF	100μF

Output Voltage	3.3V	5V	12V	15V	24V
C1	220μF	220μF	100μF	100μF	100μF

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) or email us (sales@gzny-boxing.com).