

FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature: -40°C~+85°C
- No additional components required
- Stable performance and high reliability (MTBF≥1000K hours)
- Industry standard pin-out
- Metal case
- DIP package

Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)
	Norminal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
URB2403YMD-15WR3	24	9-36	3.3	0	4000	88	4700
URB2405YMD-15WR3			5	0	3000	90	4700
URB2412YMD-15WR3			12	0	1250	90	1000
URB2415YMD-15WR3			15	0	1000	91	820
URB2424YMD-15WR3			24	0	625	91	270
URB4803YMD-15WR3	48	18-72	3.3	0	4000	88	4700
URB4805YMD-15WR3			5	0	3000	90	4700
URB4812YMD-15WR3			12	0	1250	91	1000
URB4815YMD-15WR3			15	0	1000	91	820
URB4824YMD-15WR3			24	0	625	90	270
URB1D05YMD-15WR3	110	40-160	5	0	3000	90	4700
URB1D12YMD-15WR3			12	0	1250	91	1000
URB1D15YMD-15WR3			15	0	1000	91	820
URB1D24YMD-15WR3			24	0	625	90	270

customized accepted, pls contact sales for details

Input Specifications

Input Voltage	Input Voltage Range (Vdc)	Nom(Vdc)	Max (Vdc)
		9-36	24
	18-72	48	72
	40-160	110	160

Hot Plug

Unavailable

Output Specifications

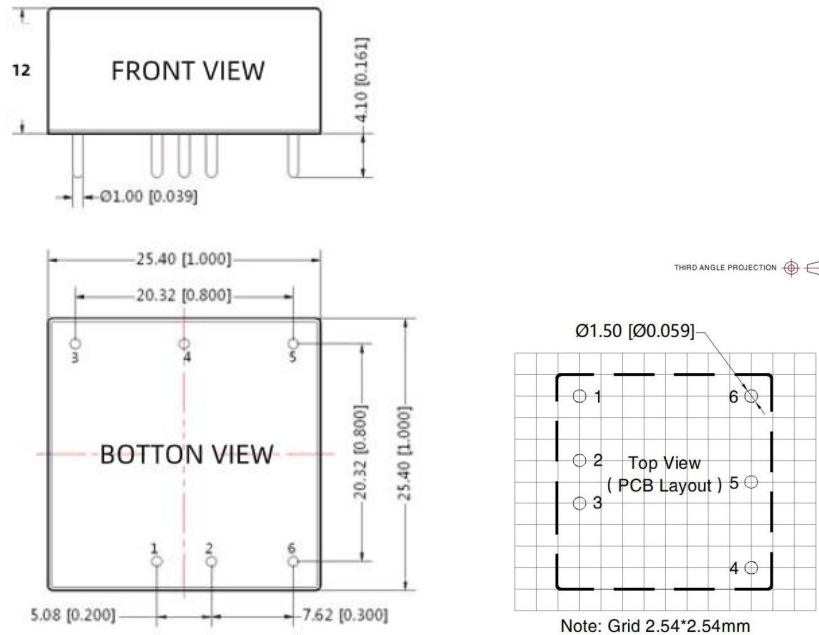
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load

Ripple&Noise	-	100mVp-p	20MHz bandwidth, 5%-100% load
Transient Recovery Time	300µs	500µs	25% load step change, Nominal input voltage
Over-voltage Protection	-	160%Vo	110%Vo(Min)
Over-current Protection	140%Io	190%Io	110%Io(Min)
Short-circuit Protection			Continuous, self-recovery

General Specifications		
Switching Frequency	300KHz(Typ)	PWM mode
MTBF	1000 K hours	MIL-HDBK-217F@25°C
Temperature Coefficient	0.03%/°C	100% full load
Isolation (Input-Output)	1.5KVDC	
Insulation Resistance	1000MΩ	Input-output resistance 500Vdc
Operating Temperature	-40~+85°C	
Storage Temperature	-55~+125°C	
Storage Humidity	5-95%	Non-condensing
Cooling Method	Free air convection	
Case Material	Aluminum alloy	
Weight	60g (Typ)	

**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25°C room temperature environment.

Dimensions and Recommended Layout

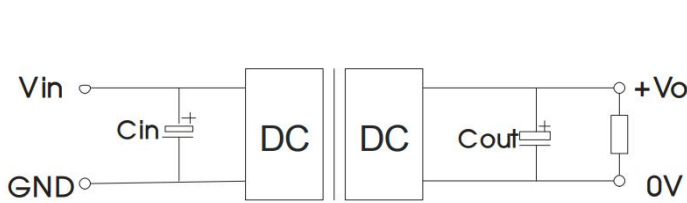


Unit:mm(inch)

Pins			
Pin	Single		
1	CTRL		
2	GND		
3	Vin		

4	+Vo		
5	TRIM		
6	0V		

Recommended Circuit



Vin (VDC)	Vout (VDC)	Cin	Cout
24	3.3/5	100μF/50V	100μF/16V
	12/15		100μF/25V
	24		47μF/50V
48	3.3/5	100μF/100V	100μF/16V
	12/15		100μF/25V
	24		47μF/50V

Noted

1. Input current: Ensure that the output current of the power supply meets the instantaneous starting current of the power module (that is, twice the average input current of the power module).
2. Output load requirements: Avoid no-load use. When the actual power consumption of the load is less than 10% of the rated output power of the module or no load occurs, connect an external resistance to the output end (the sum of the external resistance and the load power is greater than or equal to 10% of the rated load) or select a module with a smaller rated power.
3. The external capacitance of the output end should not be too large; otherwise, the module may be overcurrent or poorly started. For details, see the external capacitance recommendation table.
4. External LC filter circuit can be connected for occasions with high ripple noise requirements.