

FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature: -40℃~+105℃
- 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				Capacitive Load(μF)
	Norminal (Vdc)	Range (Vdc)	Voltage (V1dc)	Current Min(mA)	Current Max(mA)	Full Load Efficiency (%) / Typ.	
URA2405ZP-10WR3	24	9-36	±5	0	±1000	83	1000
URA2412ZP-10WR3			±12	0	±416	87	470
URA2415ZP-10WR3			±15	0	±333	87	330
URB2403ZP-10WR3			3.3	0	2400	86	1200
URB2405ZP-10WR3			5	0	2000	87	1000
URB2412ZP-10WR3			12	0	833	87	470
URB2415ZP-10WR3			15	0	667	87	330
URB2424ZP-10WR3			24	0	416	88	100
URA4805ZP-10WR3	48	18-75	±5	0	±1000	83	1000
URA4812ZP-10WR3			±12	0	±416	87	470
URA4815ZP-10WR3			±15	0	±333	87	330
URB4803ZP-10WR3			3.3	0	2400	85	1200
URB4805ZP-10WR3			5	0	2000	86	1000
URB4812ZP-10WR3			12	0	833	87	470
URB4815ZP-10WR3			15	0	667	87	330
URB4824ZP-10WR3			24	0	416	88	100

customized accepted, pls contact sales for details

Input Specifications

Input Voltage	Input Voltage Range (Vdc)	Nom(Vdc)	Max (Vdc)
	9-36	24	36
	18-75	48	75
Hot Plug	Unavailable		

Output Specifications

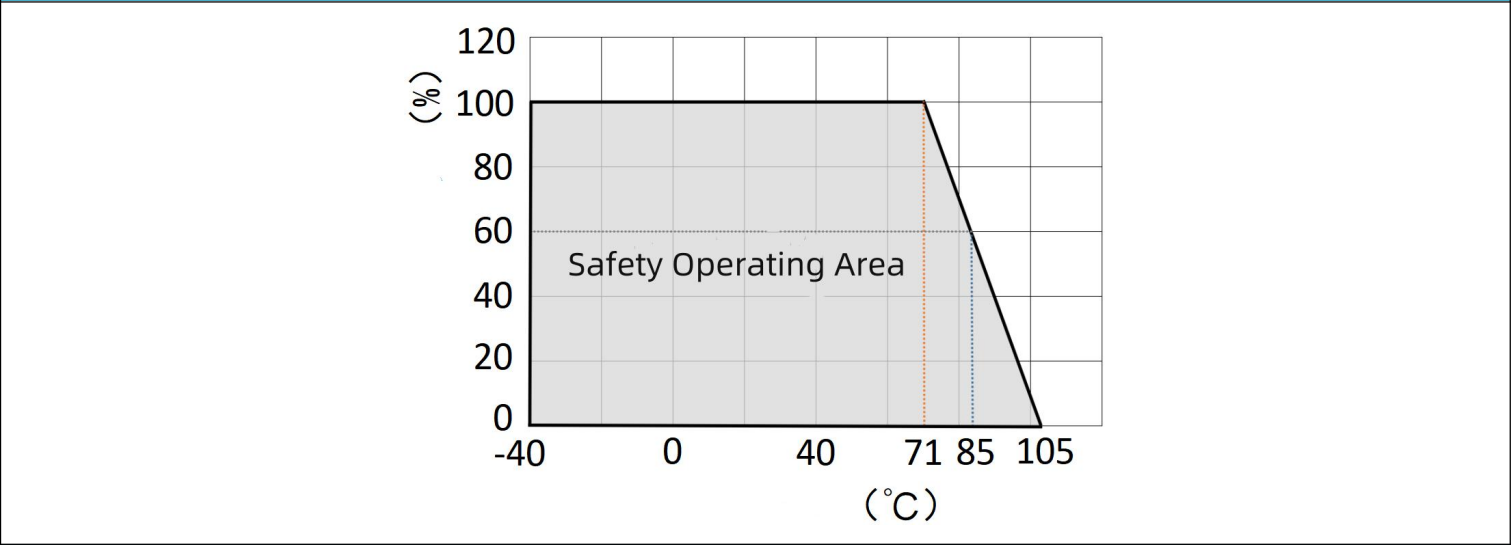
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load

Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	100mVp-p	-	20MHz bandwidth, 5%-100% load
Over-voltage Protection			
Over-current Protection			
Short-circuit Protection			Continuous, self-recovery

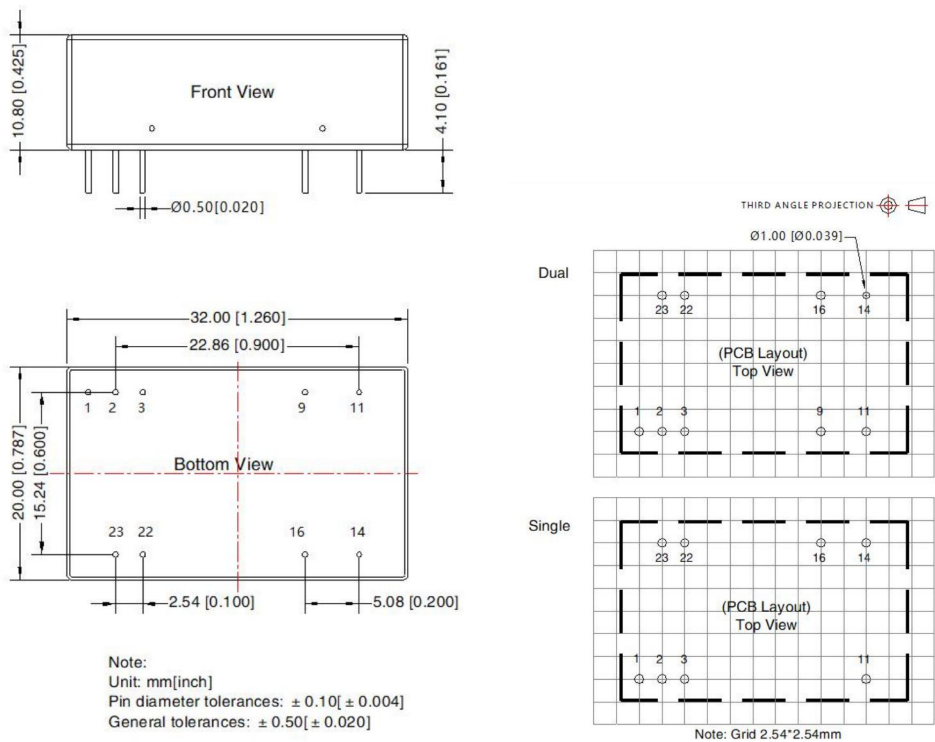
General Specifications		
Switching Frequency	250KHz(Typ)	PWM mode
MTBF	1000 K hours	MIL-HDBK-217F@25℃
Temperature Coefficient	0.03%/℃	100% full load
Isolation (Input-Output)	1.5KVDC	
Insulation Resistance	1000MΩ	Input-output resistance 500Vdc
Operating Temperature	-40~+85℃	
Storage Temperature	-55~+125℃	
Storage Humidity	5-95%	Non-condensing
Cooling Method	Free air convection	
Case Material	Aluminum alloy	
Weight	12g (Typ)	

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

Temperature Curve Graph



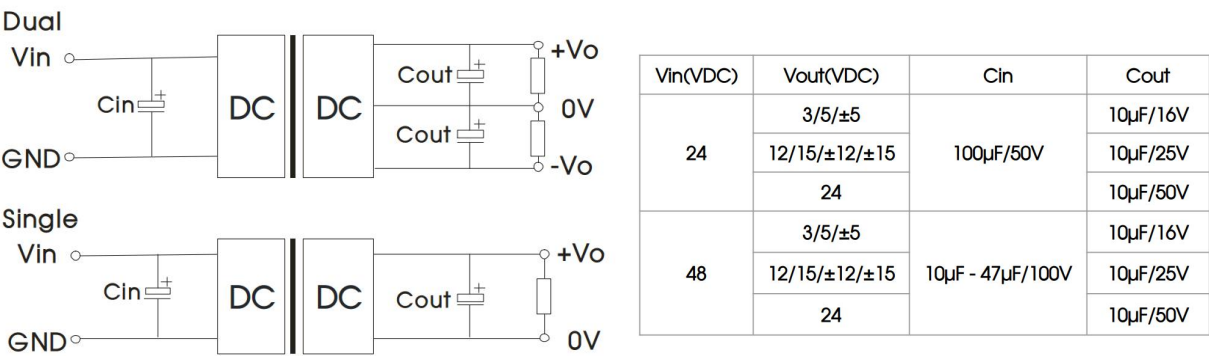
Dimensions and Recommended Layout



Pins

Pin	Single	Dual	
1	CTRL	CTRL	
2,3	GND	GND	
9	No Pin	0V	
11	NC	-Vo	
14	+Vo	+Vo	
16	0V	0V	
22,23	Vin	Vin	

Recommended Circuit



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.

*The final interpretation right of the product belongs to ECCO ELECTRONICS.