

FEATURES:

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



Selection Guide

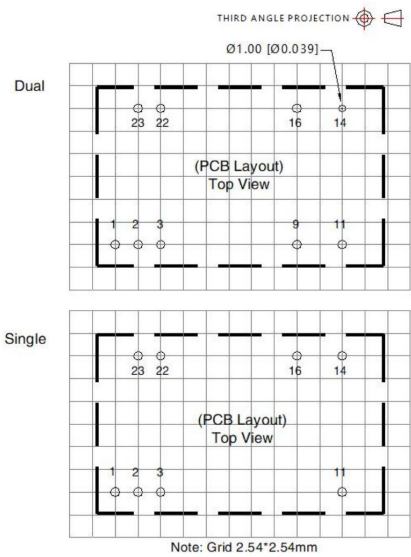
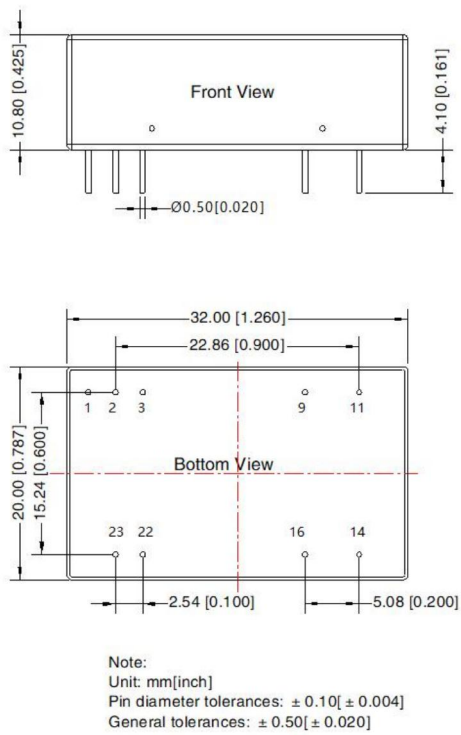
Part No.	INPUT		OUTPUT				Capacitive Load(μF)
	Norminal (Vdc)	Range (Vdc)	Voltage (V1dc)	Current Min(mA)	Current Min(mA)	Full Load Efficiency (%) / Typ.	
URA2405ZP-15WR3	24	9-36	±5	0	±1500	87	
URA2409ZP-15WR3			±9	0	±833	87	
URA2412ZP-15WR3			±12	0	±625	86	
URA2415ZP-15WR3			±15	0	±500	87	
URA2424ZP-15WR3			±24	0	±313	87	
URB2403ZP-15WR3			3.3	0	4545	87	
URB2405ZP-15WR3			5	0	3000	88	
URB2409ZP-15WR3			9	0	1667	83	
URB2412ZP-15WR3			12	0	1250	87	
URB2415ZP-15WR3			15	0	1000	87	
URB2424ZP-15WR3			24	0	625	85	
URA4805ZP-15WR3	48	18-75	±5	0	±1500	86	
URA4809ZP-15WR3			±9	0	±833	87	
URA4812ZP-15WR3			±12	0	±625	87	
URA4815ZP-15WR3			±15	0	±500	87	
URA4824ZP-15WR3			±24	0	±313		
URB4803ZP-15WR3			3.3	0	4545	87	
URB4805ZP-15WR3			5	0	3000	87	
URB4809ZP-15WR3			9	0	1667		
URB4812ZP-15WR3			12	0	1250	87	
URB4815ZP-15WR3			15	0	1000	87	
URB4824ZP-15WR3			24	0	625	88	

customized accepted, pls contact sales for details

Input Specifications

	Input Voltage Range (Vdc)	Nom(Vdc)	Max (Vdc)
	9-36	24	36

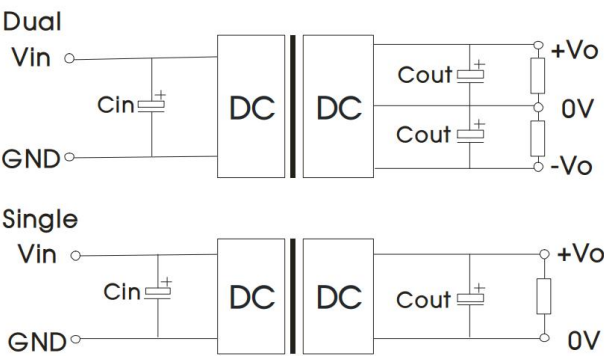
Input Voltage	18-72	48	75
Hot Plug	Unavailable		
Output Specifications			
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	100mVp-p	-	20MHz bandwidth, 5%-100% load
Over-voltage Protection			
Over-current Protection			
Short-circuit Protection			Continuous, self-recovery
Gernal 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.			
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



Vin(VDC)	Vout(VDC)	Cin	Cout
24	3/5/±5	100μF/50V	10μF/16V
	12/15/±12/±15		10μF/25V
	24		10μF/50V
48	3/5/±5	10μF - 47μF/100V	10μF/16V
	12/15/±12/±15		10μF/25V
	24		10μF/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.

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