

FEATURES:

- Wide input range 4:1
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature: -40℃~+85℃
- Switching frequency 280KHz
- Stable performance and high reliability (MTBF:2X10⁵Hrs)
- Low standby power consumption
- Metal case
- Efficiency up to 90%
- Input under-voltage, output over-voltage, short-circuit and over current protection



Selection Guide

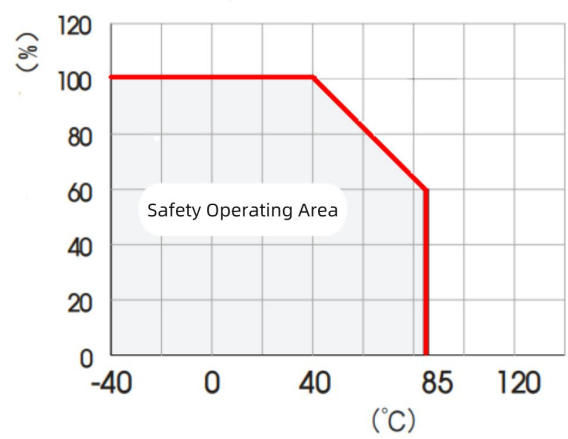
Part No.	INPUT		OUTPUT				Capacitive Load(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
URB2405YMD-20WR3	24	9-36	5	0	4000	0	2000
URB2412YMD-20WR3			12	0	1660	0	680
URB2415YMD-20WR3			15	0	1330	0	470
URB2424YMD-20WR3			24	0	830	0	330
URA2405YMD-20WR3			+5	+2000	-5	-2000	1000
URA2412YMD-20WR3			+12	+830	-12	-830	330
URA2415YMD-20WR3			+15	+660	-15	-660	220
URA2424YMD-20WR3			+24	+410	-24	-410	150
URB4805YMD-20WR3	48	18-75	5	0	4000	0	2000
URB4812YMD-20WR3			12	0	1660	0	680
URB4815YMD-20WR3			15	0	1330	0	470
URB4824YMD-20WR3			24	0	830	0	330
URA4805YMD-20WR3			+5	+2000	-5	-2000	1000
URA4812YMD-20WR3			+12	+830	-12	-830	330
URA4815YMD-20WR3			+15	+660	-15	-660	220
URA4824YMD-20WR3			+24	+410	-24	-410	150
URB1D05YMD-20WR3	110	40-160	5	0	4000	0	2000
URB1D12YMD-20WR3			12	0	1660	0	680
URB1D15YMD-20WR3			15	0	1330	0	470
URB1D24YMD-20WR3			24	0	830	0	330
URA1D05YMD-20WR3			+5	+2000	-5	-2000	1000
URA1D12YMD-20WR3			+12	+830	-12	-830	330
URA1D15YMD-20WR3			+15	+660	-15	-660	220
URA1D24YMD-20WR3			+24	+410	-24	-410	150

customized accepted, pls contact sales for details

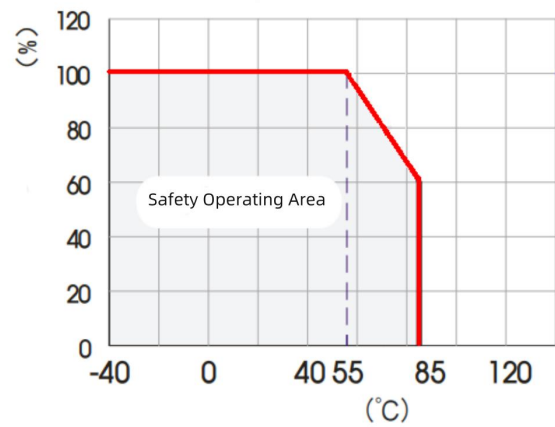
Input Specifications

Input Voltage Range	Nom(Vdc)	Max (Vdc)
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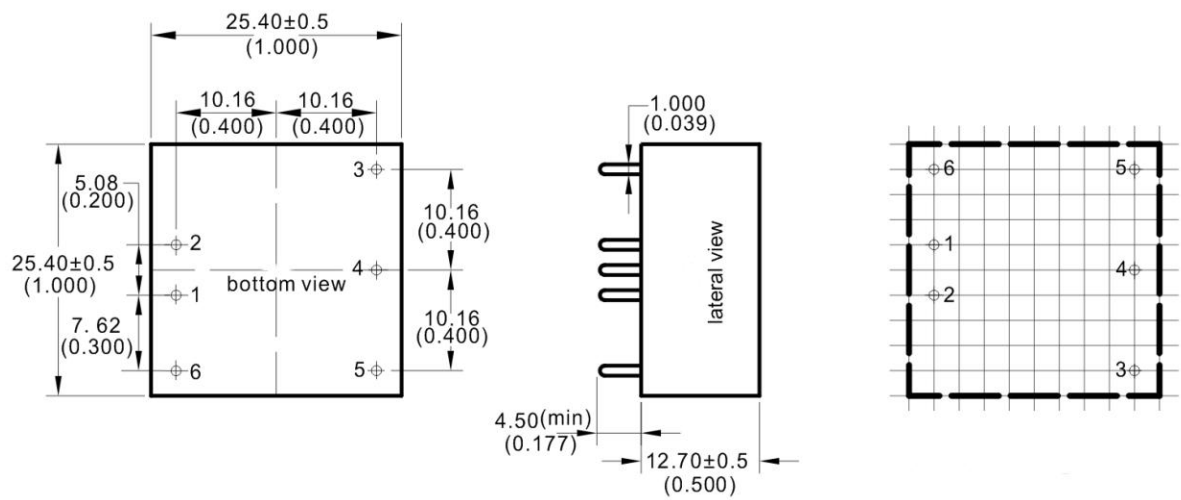
Input Voltage		(Vdc)		
		9-36	24	36
		18-75	48	75
		40-160	110	160
Hot Plug		Unavailable		
Output Specifications				
Item		Typ	Max	Test Conditions
Voltage Accuracy	+Vo	±1%	±2%	0-100% load
	-Vo	±2%	±3%	
Line Regulation	+Vo	±0.2%	±0.5%	Input voltage variation from low to high at full load
	-Vo	±0.5%	±1%	
Load Regulation	+Vo	±0.5%	±1%	5%-100% load
	-Vo	±0.5%	±1.5%	
Ripple&Noise		60mVp-p	80mVp-p	20MHz bandwidth, 5%-100% load
Startup delay time		50ms	-	
Over-voltage Protection		-	160%Vo	110%Vo(Min)
Over-load Protection		-	200%Io	110%Io(Min)
Short-circuit Protection		Continuous, self-recovery		
Transient Response Deviation		5Vout	≤5%TYP; ≤8%MAX,Instant recovery	25% load step change, nominal input
		Other output	≤3%TYP; ≤5%MAX,Instant recovery	
Start-up Time			50ms	
Output voltage adjustment range		≥±10% Vo		
Output the start-up overshoot voltage			≤2%Vo	
Gernal Specifications				
Switching Frequency		280KHz(Typ)		
MTBF		2X10 ⁵ Hrs		MIL-HDBK-217F@25℃
Isolation (Input-Output)		1.5KVDC		
Operating Temperature		-40~+85℃		
Storage Temperature		-55~+125℃		
Storage Humidity		5-95%RH		Non-condensing
Cooling Method		Free air convection		
Case Material		Aluminum alloy		
Weight		20g (Typ)		
**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25℃ room temperature environment.				
Temperature derating curve				
5V Dual output				



Other output



Dimensions and Recommended Layout



Unit:mm(inch)

Pins			
Pin	Single	Dual	
1	-Vin	-Vin	
2	+Vin	+Vin	
3	+Vo	+Vo	
4	TRIM	COM	
5	-Vo	-Vo	
6	CTRL	CTRL	

Recommended Circuit

Vout (VDC)	Cin (μF)	Cout (μF)
5	100μF/50V	220uF/16V
12/15		100μF/50V
24		47μF/50V

- Note
1. The product should be used within the specified range; otherwise, it may cause permanent damage to the product.

2. If the product operates beyond its load range, it cannot be guaranteed that all performance indicators of the product comply with those in this manual.

3. Unless otherwise specified, all the above data were measured at Ta=25℃, humidity <75%, input nominal voltage and output rated load (pure resistance load).

4. The above are all performance indicators of the product models listed in this manual. Some indicators of non-standard models may exceed the above requirements. For specific situations, you can directly contact our technical personnel.

5. Product specification changes will not be notified separately. Please pay attention to the latest manual published on our company's official website.
- *The final interpretation right of the product belongs to ECCO ELECTRONICS.