

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

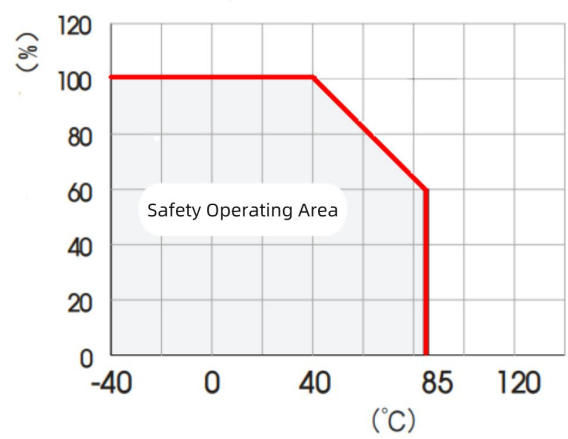
Part No.	INPUT		OUTPUT				Capacitive Load(μF)
	Norminal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
URB2405LD-15WR3	24	9-36	5	0	3000	0	2000
URB2412LD-15WR3			12	0	1250	0	680
URB2415LD-15WR3			15	0	1000	0	470
URB2424LD-15WR3			24	0	650	0	330
URA2405LD-15WR3			+5	+1500	-5	-1500	1000
URA2412LD-15WR3			+12	+625	-12	-625	330
URA2415LD-15WR3			+15	+500	-15	-500	220
URA2424LD-15WR3			+24	+310	-24	-310	150
URB4805LD-15WR3	48	18-75	5	0	3000	0	2000
URB4812LD-15WR3			12	0	1250	0	680
URB4815LD-15WR3			15	0	1000	0	470
URB4824LD-15WR3			24	0	650	0	330
URA4805LD-15WR3			+5	+1500	-5	-1500	1000
URA4812LD-15WR3			+12	+625	-12	-625	330
URA4815LD-15WR3			+15	+500	-15	-500	220
URA4824LD-15WR3			+24	+310	-24	-310	150
URB1D05LD-15WR3	110	40-160	5	0	3000	0	2000
URB1D12LD-15WR3			12	0	1250	0	680
URB1D15LD-15WR3			15	0	1000	0	470
URB1D24LD-15WR3			24	0	650	0	330
URA1D05LD-15WR3			+5	+1500	-5	-1500	1000
URA1D12LD-15WR3			+12	+625	-12	-625	330
URA1D15LD-15WR3			+15	+500	-15	-500	220
URA1D24LD-15WR3			+24	+310	-24	-310	150

customized accepted, pls contact sales for details

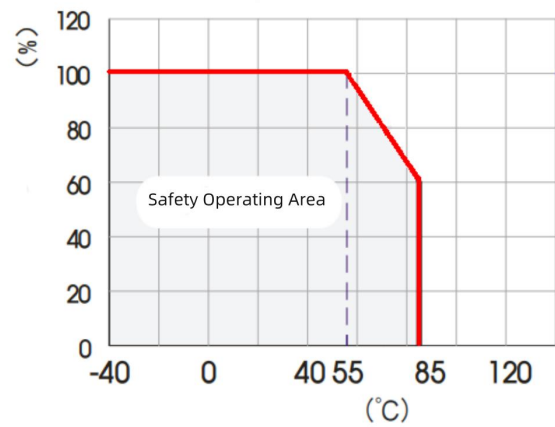
Input Specifications

Input Voltage Range	Nom(Vdc)	Max (Vdc)
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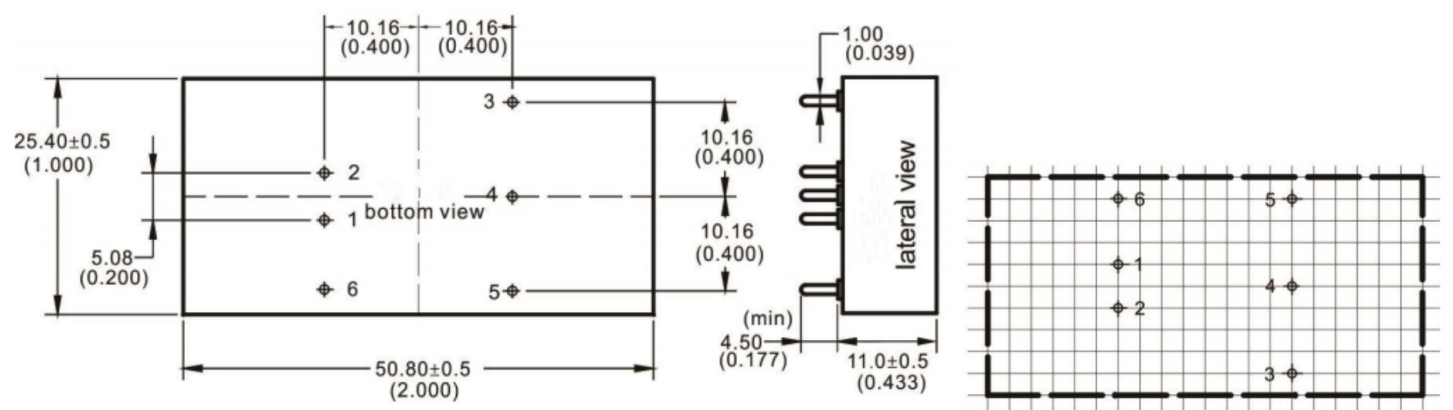
Input Voltage		(Vdc)		
		9-36	24	36
		18-75	48	75
		40-160	110	160
Hot Plug		Unavailable		
Output Specifications				
Item		Typ	Max	Test Conditions
Voltage Accuracy	+Vo	±1%	±2%	0-100% load
	-Vo	±2%	±3%	
Line Regulation	+Vo	±0.2%	±0.5%	Input voltage variation from low to high at full load
	-Vo	±0.5%	±1%	
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
Transient Recovery Time		300μs	500μs	25% load step change, Nominal input voltage
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	CTRL	CTRL	
2	-Vin	-Vin	
3	+Vin	+Vin	
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.