HenLy

Features

- Wide voltage input 4:1
- Double in line, Din-rail series
- Operating temperature range: -40°C∼+85°C
- Isolation voltage 1500VDC 0.5mA 1Minute
- Internal SMD design
- High flame retardant plastic shell package
- Heat dissipation method: natural cooling
- It has good shielding anti-interference performance and electromagnetic compatibility, lightning protection, output over current, short circuit protection, overheat protection, self-recovery and other functions

Product Picture





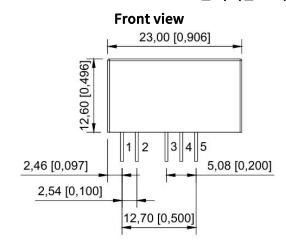


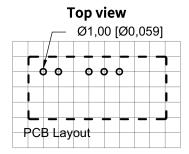


EMC-EN55032 EN55035 LVD-EN62368

Dimensions

URS_S(D)_-2W/3WH2 Series Dimensions





Note: The grid distance is 2.54*2.54mm

1		7
9,80 [0,386]	0,50 [0,020]	0,30 [0,012]

Pin mode				
Pin	Single	Dual		
1	Vin	Vin		
2	GND	GND		
3	0V	-XXVDC		
4	No Pin	СОМ		
5	+XXVDC	+XXVDC		

Bottom view

Note:

Size unit: mm[inch] Pin section tolerance: $\pm 0.1[\pm 0.004]$ The device layout is for reference only.

Unmarked tolerance: $\pm 0.25[\pm 0.01]$





Application

Railway communication, display, monitoring equipment, petrochemical, industrial control, remote DC power supply system, switching system and other communication equipment.

Selection Guide							
Model	Input (VDC)	Output (Vo±2%)	Full-load output current (mA)	Efficiency (%)	Isolation (VDC)	Weight (g±0.5)	Certification
URS_S3.3-2W/3WH2	12(9-36) 24(18-72)	3.3	909	≥70	1500		
URS_S05-2W/3WH2		5	600	≽74	1500		
URS_S12-2W/3WH2		12	250	≥77	1500		
URS_S15-2W/3WH2		15	200	≥77	1500		
URS_S18-2W/3WH2		18	167	≥76	1500		
URS_S24-2W/3WH2		24	125	≥75	1500		
URS_D05-2W/3WH2		±5	±300	≽74	1500		
URS_D12-2W/3WH2		±12	±125	≥77	1500		
URS_D15-2W/3WH2		±15	±100	≥77	1500		
URS_D18-2W/3WH2		±18	±83	≥76	1500		

Note: The company for customers to customize any input and output module power supply, if you have special needs, please call our company, unless otherwise specified, input =Vi, the characteristics of the module power supply should meet the requirements of Table 1, and applicable to the full temperature range (-40°C \leq Tc \leq 85°C)

Electrical Characteristics					
Characteristic	Symbol	Conditions Vi ,-40°C≤Tc≤85 (Unless otherwise specified)		Max	Unit
Output Voltage	Vo	Full load	Vo-2%	Vo+2%	V
Output Current	Iomax	_	_	P(Power)/U(Output voltage)	Α
Output Ripple Voltage	Vp-p	Full load, Vi, BW=20MHz, Normal temperature	80	200	mV
Output Noise Voltage	Vp-p	Full load, Vi, BW=20MHz, Normal temperature	100	250	mV
Voltage Regulation	Sv	Vimin、Vi、Vimax,Full load	_	<2%	%
Load Adjustment Rate	Si	Vi, Io=(10%~100%)Iomax	_	<1%	%
Efficiency	η	Vi, Full load, Normal temperature	70	_	%
Insulation Resistance	Rl	Input-output, insulation 500VDC	1000	_	МΩ

General Specifications				
EMC Specifications	Magnetic field sensitivity test	GB-4943		
	Electrostatic discharge sensitivity test	GB-4943		
	Radiation sensitivity test	GB-4943		
	Conduction sensitivity test	GB-4943		
Temperature Drift	≤0.02%/°C			
Storage Temperature	-40°C~125°C			
Input Frequency	150KHz~300KHz			
Humidity	10%~90%RH			
MTBF	>500000H			

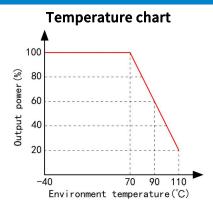




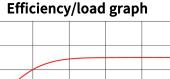
Mechanical Specifications

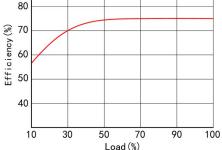
Size 23.00 x 9.80 x 12.60 mm

Typical Characteristic Curves

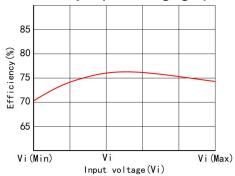


Error envelope graph 10% Maxpower (%) 5% T_{yp} +2.5% 0% Output Min -2.5% -7.5% -10% 10% 100% Environment temperature (°C)



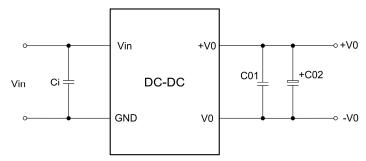


Efficiency/Input voltage graph



Typical Application

Design Reference



Recommendation Test

Filter: In some circuits that are sensitive to noise and ripple, an external filter capacitor can be connected to the DC/DC input and output terminals to reduce the impact of ripple on the system, but the value of the filter capacitor should be appropriate, if the capacitor is too large, it is likely to cause startup problems, for each output, under the condition of ensuring safe and reliable operation, the maximum capacitance of the filter capacitor can be referred to the external capacitance table. In order to obtain very low ripple, an "LC" filter network can be connected to the input and output end of the DC/DC converter, so that the filtering effect will



DC-DC Converter

URS_S(D)_-2W/3WH2 Series



be better, and it should be noted that the size of the inductance value and the frequency of the "LC" filter network should be staggered from the frequency of the DC/DC module power supply to avoid mutual interference. For each output, under safe and reliable working conditions, the recommended capacitive load value is shown in (Table 1).

Single Vout	Cout	Dual Vout	Cout
5-12VDC	22-68uF	±5-±12VDC	4.7-22uF
24-48VDC	10-47uF	±24-±48VDC	4.7-10uF

Recommended output max capacitive load value table (Table 1)

Precautions		
Package		
This series of modules are packed in shockproof and anti-static foam.		
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Transport

The package containing the module is allowed to be transported by any means of transport, which should avoid direct rain and snow and mechanical damage.

Store

The module should be stored in a warehouse where the ambient temperature is -40 degrees \sim 125 degrees, the relative humidity is 10% \sim 90%, and the surrounding environment is free from acidic, alkaline and other harmful gases.

Note: The above are the performance indicators of the product series listed in this manual. Some indicators of non-standard products may exceed the above requirements, so if there is any inconsistency between the manual and the product specification documents, please refer to the specification documents. If you have special needs, please contact us directly.

