



### ■ FEATURES:

- Own global certification
- Full range AC input for international use
- No-load consumption<0.1W
- Efficiency Level
- Protection: SCP/OCP/OVP
- Full protective plastic housing
- Temp.: -10~+50°C

### ■ APPLICATIONS:

- Consumer Electronics
- Communication Equipments
- Office Equipments
- Industrial Equipments
- Security Equipments

### ■ DESCRIPTION:

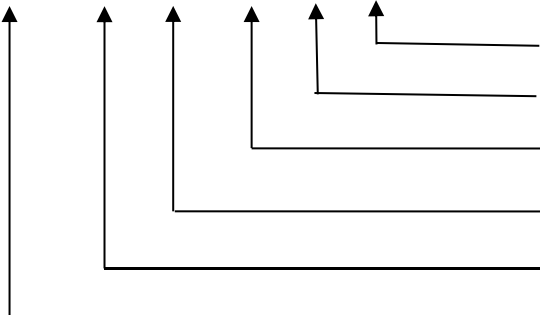
GRT-A24 series are the wall mounted type, to support 24W max power, which with smart size, green and single output. The item is Class II, with fixed AC plug like as AU, EU, UK, CN, KR, US and more, suitable for application with input voltage 90-264VAC, output voltage from 4Vdc to 42Vdc. Can meet the demands of all kinds of consumer electronics devices and pass International safety certifications.

GRT-A24 series with 90% efficiency, no-load power consumption below 0.1W, fully compliance with EU ERP and Code of Conduct (CoC) Version 5.

The most important feature of GRT-A24 series is that can save power consumption when standby mode. The plastic housing used for GRT-A24 series is compliance with UL94 V-0. It provides double insulation protection against electric shock.

■ Model number

**GRT-A24-120 200 U W**



Plastic housing color,W=White,B=Black

AC plug:U=US plug

Rated output current

Rated output voltage

Max rated output power

GRT: Company name

SPECTION:

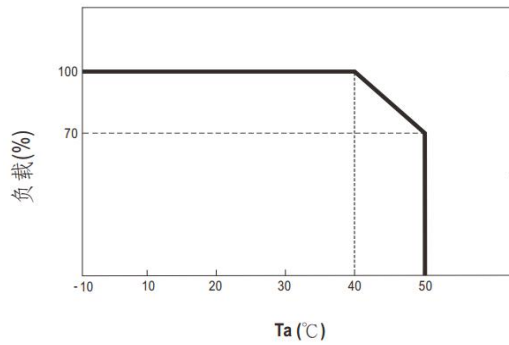
Output	Model ①	<b>GRT-A24-050400U</b>	<b>GRT-A24-120200UW</b>	<b>GRT-A24-240100UW</b>	<b>GRT-A24-480050UW</b>
	DC Voltage ③	5V	12V	24V	48V
	Rated Current	4A	2.0A	1.0A	0.5A
	Current range	0-4A	0-2.0A	0-1.0A	0-0.5A
	Rated power	20W	24W	24W	24W
	Ripple & Noise (max) ④	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	Volt.accuracy ⑤	±5.0%	±5.0%	±5.0%	±3.0%
	Line Regulation ⑥	±1.0%	±1.0%	±1.0%	±1.0%
	Load Regulation ⑦	±5.0%	±3.0%	±3.0%	±2.0%
	Turn on/Rise/Hold on time	2000ms, 50ms, 10ms /230VAC    3000ms, 50ms, 10ms /115VAC (@ full load)			
Input	Voltage range	90-264VAC			
	Frequency range	47 ~ 63Hz			
	Efficiency (Typ.)	84%	86%	87%	88%
	AC current	0.5A / 115VAC    0.25A / 230VAC			
	Inrush current (max)	Cold start 40A / 115VAC    75A / 230VAC			
	Surge current(max)	0.25mA / 240VAC			
Protection	Over-load	120%~180% Rated output power			
		The power supply shall be protected when output in over-load			
	Over-voltage	110%~140% Rated output voltage			
		The power supply will be restarted recovery when power off			
Environment	Working Temp.	-10 ~ +50℃ ( refers to deduction curve)			
	Working Humidity	20 ~ 90% RH,non-condensing			
	Temp/humidity Storage	-20 ~ +85℃, 10 ~ 95% RH,non-condensing			
	Temp. coefficient	±0.03% /℃ (0 ~ 40℃)			
	Vibration	10 ~ 500Hz, 2G 10m/circle, X、Y、Z axis,60m per each			

Remark:The information just for reference,the specific data shall be finally confirmed by both parties

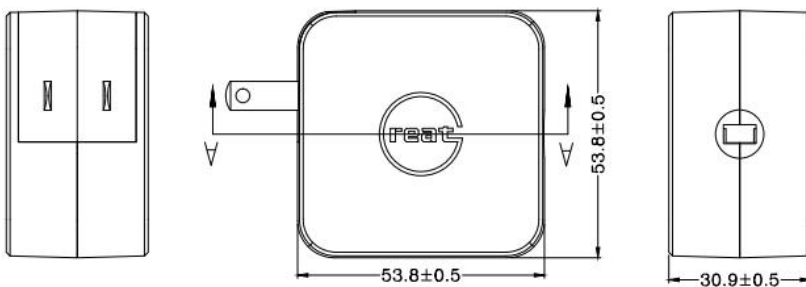
Safety EMC	Safety Standard	GB4943 , GB4706 , IEC62368-1,EN62368-1UL62368-1,KC60950,EN61558																							
	Withstand	I/P-O/P: 3000VAC																							
	Insulation	I/P-O/P:10M Ohms / 500VDC / 25℃ / 70% RH																							
	EMC ⑧	<b>Parameter</b>	<b>Standard</b>	<b>Test Level / Note</b>																					
	Conducted emission	GB17625.1,EN55032,		Class B																					
	Radiated emission	GB/T-9254, EN55035, GB4343, FCC Part 15,		Class B																					
Other	Lifetime	3years : 100% load at 40℃, 12 hours per day																							
	MTBF	≥50000hrs min. MIL-HDBK-217F (25℃)																							
	Dimension	53.8*53.8*32 mm (L*W*H)																							
Connector	AC inlet	Fixed AC plug (2~3pins),like as EU, UK,US,AU,CN,KR,JP ect																							
	Power cord (O/P)	According to clients' requirements																							
Remarks	1. I Mode series,details as below list:																								
	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Part Number</th> <th rowspan="2">Input</th> <th colspan="3">Output</th> </tr> <tr> <th>Voltage (V )</th> <th>Current (A)</th> <th>Power (W) max</th> </tr> </thead> <tbody> <tr> <td rowspan="4">GRT-A24-XXXYYYYU#</td> <td rowspan="4">100-240V ~/1.5A Max/50-60Hz</td> <td>4.0-6.0</td> <td>0.10-4.00</td> <td>20</td> </tr> <tr> <td>6.1-18.0</td> <td>0.10-2.00</td> <td>24</td> </tr> <tr> <td>18.1-30.0</td> <td>0.10-1.33</td> <td>24</td> </tr> <tr> <td>30.1-42.0</td> <td>0.10-0.80</td> <td>24</td> </tr> </tbody> </table> <p>Notes:            XXX:Three digits number which represents output voltage from 4.0Vdc to 42.0Vdc, minimum rising step is 0.1V.            (e.g:040=4.0V,180=18.0V,300=30.0V.420=42.0V)            YYY:Three digits number which represents output current from 0.1A to 4.0A, minimum rising step is 0.01A            (e.g.: 001=0.1A,400=4.0A. )            U: represents AC plug,E=EU plug, B=UK plug,U=US plug ,A=AU plug ,C=CN plug            #:the symbol represents plastic housing color, W=white, B=Black</p>				Part Number	Input	Output			Voltage (V )	Current (A)	Power (W) max	GRT-A24-XXXYYYYU#	100-240V ~/1.5A Max/50-60Hz	4.0-6.0	0.10-4.00	20	6.1-18.0	0.10-2.00	24	18.1-30.0	0.10-1.33	24	30.1-42.0	0.10-0.80
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2. If without special requirements, all specification parameters are tested under specified conditions (with input 230VAC, rated load at 25℃ 70%RH) 3. DC voltage test: test at AC socket at 50% load 4. Ripple & noise test :use one #12 UTP, the oscilloscope set to 20MHZ bandwidth limit,parallel with0.1uF and 10uF capacitors 5. Accuracy: Includes setting error,rate of linear regulation / load regulation 6.Linear Regulation: Test from low voltage to high voltage at rated load 7. Load regulation:test the rated load from 10% to 100% 8. The item has passed EMC test																									

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■ DEDUCTION CURVE



■ DIMENSION (unit:mm)



■ OUTPUT DC CONNECTOR

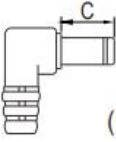
◎ Common DC jack (set as standard if without special requirements):

	<b>Pin definition</b>
	<p>外側 ⊖ ⊕ 内側</p>

◎ Optional DC jacks:

Tuning Fork Style		A	B	C		
		OD	ID	L		
	<p>(Straight) (Straight)</p>	5.5	2.1	9.5		
		5.5	2.1	11.0		
	<p>(Right-angled)</p>	5.5	2.5	9.5		
		5.5	2.5	11.0		
		5.5	2.1	9.5		
		5.5	2.1	11.0		
		<b>Barrel Style</b>		A	B	C
				OD	ID	L
<p>(Straight)</p>		5.5	2.1	9.5		
		5.5	2.1	11.0		
		5.5	2.5	9.5		

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	 (Right-angled)	<b>5.5</b>	<b>2.5</b>	<b>11.0</b>
		<b>5.5</b>	<b>2.1</b>	<b>9.5</b>
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