

• Various DC plug quick adapter accessory available (Plug kit sold sperately, please refer to : <u>https://www.meanwell.com/upload/pdf/DC\_plug.pdf</u>)

IEC320-C14 AC inlet

Rated wattage Series name

#### 3 years warranty

#### Description

GST120A is a highly reliable, 120W desktop style single-output green adaptor series. This product is a class I power unit (with FG), equipped with a standard IEC320-C14 AC inlet and adopting the input range from 85VAC to 264VAC. The entire series supplies different models with output voltages ranging between 12VDC and 48VDC that can satisfy the demands for various types of consumer electronic devices. With the efficiency up to 91% and the extremely low no-load power consumption below 0.15W,GST120A is compliant with USA EISA 2007/DoE, Canada NRCan, Australia and New Zealand MEPS,Korea K-MEPS,EU ErP and Code of Conduct (CoC) Version 5. The supreme feature allows the adaptor to save the energy when it is either under the operating mode or the standby mode. The entire series utilizes the 94V-0 flame retardant plastic case.GST120A is certified for the international safety regulations.

### Model Encoding

### GST 120A 12 - R7B



DC plug type  $\begin{cases} R7B: Plug \text{ for } 12~48V, Power DIN 4Pin \text{ with lock type(standard)} \\ P1M: Plug \text{ for } 20~48V \text{ only}, 2.5 \ \phi \times 5.5 \ \phi \times 11 \text{ mm, C+, tuning fork type(standard)} \\ Other \text{ options available by customer requested (see Page 4~5)} \\ Output \text{ voltage} \end{cases}$ 



### 120W AC-DC Reliable Green Industrial Adaptor

# **GST120A** series

	ATION		007400440 5-5	007/00//	GST120A20-	GST120A24-	GST120A48-			
ORDER NO.			GST120A12-R7B	GST120A15-R7B		_=R7B,P1M	<b>=</b> R7B,P1M			
	SAFETY MODEL NO		GST120A12	GST120A15	GST120A20	GST120A24	GST120A48			
OUTPUT	DC VOLTAGE		12V	15V	20V :	24V	48V			
	RATED CURRENT		8.5A	7A	6A	5A	2.5A			
	CURRENT RANGE		0~8.5A	0~7A	0~6A	0~5A	0~2.5A			
	RATED POWER (max.)		102W	105W	120W	120W	120W			
	RIPPLE & NOISE (max.) Note.2		120mVp-p	120mVp-p		180mVp-p	200mVp-p			
	VOLTAGE TOLERANCE Note.3			±5.0%		±3.0%	±2.5%			
			±1.0%	±1.0%		±1.0%	±1.0%			
	LOAD REGULATION		±5.0%	±5.0%		±3.0%	±2.5%			
			2000ms, 30ms / 230VAC			13.0%	12.370			
			2000ms, 30ms / 230VAC 2500ms, 30ms / 115VAC at full load 20ms / 230VAC 20ms / 115VAC at full load							
	HOLD UP TIME (Typ.) VOLTAGE RANGE Note.6		20ms / 230VAC 20ms / 115VAC at full load 85 ~ 264VAC 120 ~ 370VDC							
	FREQUENCY RANGE		47 ~ 63Hz PF>0.93 / 230VAC PF>0.97 / 115VAC at full load							
	POWER FACTOR (Ty	. ,		PF>0.97 / 115VAC at full I		00.5%	0.101			
NPUT	EFFICIENCY (Typ.)	R7B	88.5%	89%		90.5%	91%			
		P1M			89%	89.5%	90.5%			
	AC CURRENT		1.4A / 115VAC 0.7A / 230VAC							
	INRUSH CURRENT (max.)		Cold start 35 / 115AC 70A / 230VAC							
	LEAKAGE CURRENT(max.)		0.75mA/240VAC							
			105 ~ 160% rated output power							
PROTECTION	OVERLOAD		Protection type : Hiccup mode, recovers automatically after fault condition is removed							
			105 ~ 135% rated output voltage							
	OVER VOLTAGE		Protection type : Shut down o/p voltage, re-power on to recover							
	OVER TEMPERATURE		Shut down o/p voltage, re-power on to recover							
	WORKING TEMP.			•						
ENVIRONMENT	WORKING HUMIDITY		-30 ~ +70 °C (Refer to "Derating Curve") 20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY		-40 ~ +85°C, 10 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT		±0.03% /°C (0~45°C)							
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS Note. 7		VIL62368-1, CSA C22.2 No. 62368-1, TUV BS EN/EN62368-1, BSMI CNS15598-1, CCC GB4943.1, PSE J62368-1, AS/NZS 60950 BIS IS13252, KC K60950-1, EAC TP TC 004 approved							
	WITHSTAND VOLTAGE		I/P-O/P: 3KVAC							
	ISOLATION RESISTANCE									
	ISOLATION RESISTANCE		I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH           Parameter         Standard         Test Level / Note							
			Parameter		CISPR32),FCC PART 15 / CISP					
	EMC EMISSION		Conducted emission		MB-3(B),CNS15936,GB17625.		Class B			
				EAC TP TC 020,N		. Class D				
				BS EN/EN55032(0	CISPR32), FCC PART 15 / CISP	R22				
			Radiated emission		MB-3(B),CNS15936,GB17625.	1 Class B				
SAFETY &			Harmonic current	EAC TP TC 020,N		Olara A				
EMC				BS EN/EN61000-		Class A				
(Note. 9)			Voltage flicker	BS EN/EN61000-	3-3					
			BS EN/EN55035	Standard		Test Level /N	loto			
	EMC IMMUNITY		Parameter		Standard					
			ESD		BS EN/EN61000-4-2		Level 4, 15KV air; Level 4, 8KV contact			
			RF field susceptibility	BS EN/EN61000-	BS EN/EN61000-4-3		Level 2, 3V/m			
			EFT bursts	BS EN/EN61000-	4-4	Level 2, 1K	Level 2, 1KV			
			Surge susceptibility	BS EN/EN61000-	4-5	Level 3, 1K	Level 3, 1KV/Line-Line , 2KV/Line-FG			
			Conducted susceptibility	BS EN/EN61000-	4-6	Level 2, 3V	Level 2, 3V			
			Magnetic field immunity	BS EN/EN61000-	4-8	Level 2, 3A	Level 2, 3A/m			
							>95% dip 0. 5 periods, 30% dip 25 perio			
			Voltage dips , interruption BS EN/EN61000-4-11 >95% interruptions 250 periods, 30% dip 2:							
	MTBF		2250.5K hrs min. Telcordia SR-332 (Bellcore) ; 368.5K hrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION		167*67*35mm (L*W*H)							
	PACKING		0.575Kg; 20pcs/12.5Kg/0.89CUFT							
CONNECTOR	PLUG		See page 4~5 ; Other type available by customer requested							
	CABLE		See page 4~5 ; Other type available by customer requested							
		pecified at 2	10 1	30VAC input, rated load, 25°C 70% RH ambient.						
	<ol> <li>Ripple &amp; noise are measured at</li> <li>Tolerance: includes set up tolera</li> <li>Line regulation is measured from</li> <li>Length of set up time is measured</li> </ol>		20MHz by using a 12" twisted pair terminated with a 0.1 $\mu$ F & 47 $\mu$ F capacitor.							
			ance, line regulation, load regulation. n low line to high line at rated load.							
			ed at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.							
NOTE			low input voltage. Please check the derating curve for more details. ing of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).							
	8. The power supply is	considered	as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the							
			n how to perform these EMC tests, please refer to "EMI testing of component power supplies." anwell.com//Upload/PDF/EMI statement en.pdf)							
				/ /	well.com/serviceDisclaimer.asp>	(				
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### 120W AC-DC Reliable Green Industrial Adaptor

# **GST120A** series





## **GST120A** series



### O DC plug changeable through:

- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

Please refer to below table and online selection guide : <u>https://www.meanwell.com/upload/pdf/DC\_plug.pdf</u>

Example quick adapter accessory:



### Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork	Type No.	A		В	С	Quick Adapter	
Tuning FOR		Type NO.	OD		ID	L	Accessory
		P1I	5.5		2.1	9.5	None
		P1L	5.5		2.5	9.5	NOTIE
	(Straight)	P1J	5.5	:	2.1	11.0	Available for 15 ~ 48V
		P1JR	5.5		2.1	11.0	(Current rating: 7.5A max.)
<b>→</b>		P1IR	5.5		2.1	9.5	
		P1LR	5.5		2.5	9.5	None
	(Right-angled)	P1MR	5.5		2.5	11.0	
Barrel St	vlo	Type No.	A		В	С	
Darrer St	Туре №0.	OD		ID	L		
	C	P2I	5.5		2.1	9.5	
		P2J	5.5		2.1	11.0	
		P2L	5.5		2.5	9.5	None
	(Straight)	P2M	5.5		2.5	11.0	NONC
		P2IR	5.5		2.1	9.5	
		P2JR	5.5		2.1	11.0	
		P2LR	5.5		2.5	9.5	
	(Right-angled)	P2MR	5.5		2.5	11.0	
	Type No.	A		В	С		
Lock St	yle	Type No.	OD		ID	L	
Δ.	Floating Locking		5.53		2.03	12.06	None
		P2K(761K)	5.53		2.54	12.06	NONE
		P2C(S760K)	5.53		2.03	9.52	
	SWITCHCRAFT original or equivalent	P2D(760K)	5.53		2.54	9.52	
Contor Din (	Tuno No	A	В	C	D		
Center Pin S	Style	Type No.	OD	ID	L	Center Pin	
		P4A	5.5	3.4	11.0	1.0	None
		P4B	6.5	4.4	11.0	1.4	NOLIC
	EIAJ equivalent	P4C	7.4	5.1	11.0	0.6	
	Type No.	Pin Assignment		t			
Min. DIN 3 Pin with		PIN No					
			1		+Vo	)	None
		R6B	2		-Vo		NONE
	KYCON KPPX-3P equivalent		3		+Vo	)	



# **GST120A** series

Min. DIN 4 Din with Look (forcolo)		Pin	Assignment	Quick Adapter	
Min. DIN 4 Pin with Lock (female)	Type No.	PIN No. Output		Accessory	
		1	+Vo		
	D7DE	2	-Vo	Nere	
	R7BF	3	-Vo	- None	
KYCON KPJX-CM-4S equivalent		4	+Vo		
	Type No.	Pin	Assignment		
DIN 5 Pin (male)		PIN No.	Output		
		1	-Vo		
		2	-Vo	None	
	R1B	3	+Vo	_	
		4	-Vo		
		5	+Vo	-	
	_	Pin Assignment			
NEUTRIK XLR NC4FX equivalent	Type No.	PIN No.	Output		
		1	+V0	7	
		2	+V0	None	
	MIC4	3	-Vo	1	
		4	-Vo	-1	
	_	Pin Assignment			
MOLEX 39-01-2060 (4.2mm) equivalent	Type No.	PIN No.	Output	-	
	C6P	1	+V0	None	
_		2	+Vo		
		3	+Vo		
		4	-Vo		
		5	-Vo	-	
		6	-Vo	-	
	Type No.	Pin Assignment			
AMP 1-480702-0 (6.35mm) equivalent		PIN No.	Output	-	
		1	+V0	_	
	C4P	1 0		None	
		2	+Vo	_	
		3	-Vo		
		4	-Vo		
Stripped and tinned leads	Type No.	Pin Assignment			
		PIN No. Output			
L (red) 1 2 L1 (black)	by customer	1	+Vo	None	
Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm) ( NOTE: The wire color is for reference only, please refer to the actual product)		2	-Vo		

#### Installation Manual

Please refer to : http://www.meanwell.com/manual.html