

## ■ Features

### • Global certificates

- Universal AC input / Full range
- 2 pole AC inlet IEC320-C8, Class II power unit
- No load power consumption < 0.075W

### • Energy efficiency Level VI

- Comply with EISA 2007/DoE, NRCan, Korea K-MEPS, AU/NZ MEPS, EU ErP and CoC Version 5
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- Pass LPS
- -30~+70°C wide range working temperature
- LED indicator for power on
- Various DC plug quick adapter accessory available  
(Plug kit sold separately, please refer to : [https://www.meanwell.com/upload/pdf/DC\\_plug.pdf](https://www.meanwell.com/upload/pdf/DC_plug.pdf) )
- 3 years warranty

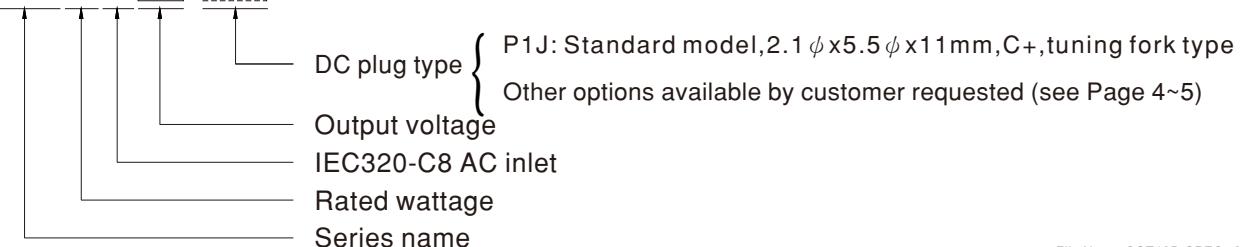
## ■ Description

GST18B is a highly reliable, 18W desktop style single-output green adaptor series. This product is a class II power unit (no FG), equipped with a standard IEC320-C8 AC inlet and adopting the input range from 85VAC to 264VAC. The entire series supplies different models with output voltages ranging between 5VDC and 48VDC that can satisfy the demands for various types of consumer electronic devices.

With the efficiency up to 89% and the extremely low no-load power consumption below 0.075W, GST18B 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, providing the double insulation that effectively prevents electrical shock. GST18B is certified for the international safety regulations.

## ■ Model Encoding

**GST 18 B 05 -P1J**





18W AC-DC Reliable Green Industrial Adaptor

GST18B series

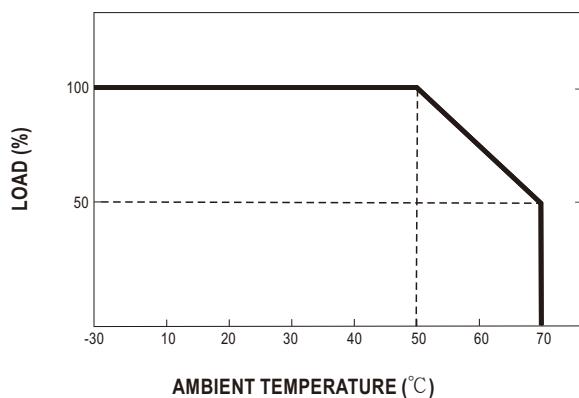
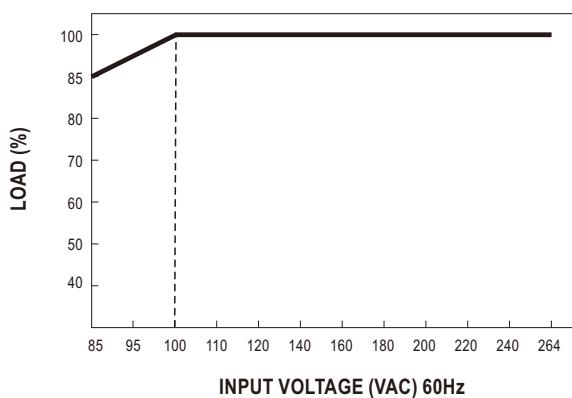
## SPECIFICATION

ORDER NO.	GST18B05-P1J	GST18B07-P1J	GST18B09-P1J	GST18B12-P1J	GST18B15-P1J	GST18B18-P1J	GST18B24-P1J	GST18B28-P1J	GST18B48-P1J				
OUTPUT	SAFETY MODEL NO.	GST18B05	GST18B07	GST18B09	GST18B12	GST18B15	GST18B18	GST18B24	GST18B28	GS18B48			
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	28V	48V			
	RATED CURRENT	3.0A	2.0A	2.0A	1.50A	1.20A	1.0A	0.75A	0.64A	0.375A			
	CURRENT RANGE	0 ~ 3.0A	0 ~ 2.0A	0 ~ 2.0A	0 ~ 1.50A	0 ~ 1.20A	0 ~ 1.0A	0 ~ 0.75A	0 ~ 0.64A	0 ~ 0.375A			
	RATED POWER (max.)	15W	15W	18W	18W	18W	18W	18W	18W	18W			
	RIPLLE & NOISE (max.) Note.3	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p			
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%			
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LOAD REGULATION Note.6	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%			
SETUP, RISE, HOLD UP TIME		1000ms, 30ms, 50ms/230VAC				1500ms, 30ms, 15ms/115VAC at full load							
INPUT	VOLTAGE RANGE Note.7	85 ~ 264VAC											
	FREQUENCY RANGE	47 ~ 63Hz											
	EFFICIENCY (Typ.)	81%	85%	85%	86%	87%	88%	88%	88.5%	89%			
	AC CURRENT	0.5A / 115VAC	0.3A / 230VAC										
	INRUSH CURRENT (max.)	Cold start 35A / 115VAC		65A / 230VAC									
PROTECTION	OVERLOAD	110 ~ 150% rated output power											
		Protection type : Hiccup mode, recovers automatically after fault condition is removed											
	OVER VOLTAGE	110 ~ 140% rated output voltage											
ENVIRONMENT	WORKING TEMP.	-30 ~ +70 °C (Refer to "Derating Curve")											
	WORKING HUMIDITY	20% ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY	-40 ~ +85 °C, 10 ~ 95% RH non-condensing											
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50 °C)											
SAFETY & EMC (Note. 9)	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes											
	SAFETY STANDARDS Note. 8	UL62368-1, CSA C22.2 No.62368-1, TUV BS EN/EN62368-1, BSMI CNS14336, CCC GB4943.1, AS/NZS 60950.1, PSE J62368-1, BIS IS13252, KC K60950-1, EAC TP TC 004 approved; SIRIM MS IEC60950-1 (optional) approved											
	WITHSTAND VOLTAGE	I/P-O/P:4242VDC											
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25 °C / 70% RH											
	EMC EMISSION	Parameter	Standard	Test Level / Note									
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1 EAC TP TC 020,MSIP KN32	Class B									
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 CAN ICES-3(B)/NMB-3(B),CNS13438,GB17625.1 EAC TP TC 020,MSIP KN32	Class B									
		Harmonic current	BS EN/EN61000-3-2,GB9254	Class A									
	EMC IMMUNITY	Voltage flicker	BS EN/EN61000-3-3	-----									
		Parameter	Standard	Test Level / Note									
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air; Level 2, 4KV contact									
		RF field susceptibility	BS EN/EN61000-4-3	Level 2, 3V/m									
		EFT bursts	BS EN/EN61000-4-4	Level 2, 1KV									
		Surge susceptibility	BS EN/EN61000-4-5	Level 3, 1KV/Line-Line									
		Conducted susceptibility	BS EN/EN61000-4-6	Level 2, 3V									
OTHERS	MATERIAL	PCB, ABS, PC, PE, PA66, PA6, PA12, PA11, PA10, PA9, PA8, PA7, PA6, PA5, PA4, PA3, PA2, PA1, PA0, PA-1, PA-2, PA-3, PA-4, PA-5, PA-6, PA-7, PA-8, PA-9, PA-10, PA-11, PA-12, PA-13, PA-14, PA-15, PA-16, PA-17, PA-18, PA-19, PA-20, PA-21, PA-22, PA-23, PA-24, PA-25, PA-26, PA-27, PA-28, PA-29, PA-30, PA-31, PA-32, PA-33, PA-34, PA-35, PA-36, PA-37, PA-38, PA-39, PA-40, PA-41, PA-42, PA-43, PA-44, PA-45, PA-46, PA-47, PA-48, PA-49, PA-50, PA-51, PA-52, PA-53, PA-54, PA-55, PA-56, PA-57, PA-58, PA-59, PA-60, PA-61, PA-62, PA-63, PA-64, PA-65, PA-66, PA-67, PA-68, PA-69, PA-70, PA-71, PA-72, PA-73, PA-74, PA-75, PA-76, PA-77, PA-78, PA-79, PA-80, PA-81, PA-82, PA-83, PA-84, PA-85, PA-86, PA-87, PA-88, PA-89, PA-90, PA-91, PA-92, PA-93, PA-94, PA-95, PA-96, PA-97, PA-98, PA-99, PA-100, PA-101, PA-102, PA-103, PA-104, PA-105, PA-106, PA-107, PA-108, PA-109, PA-110, PA-111, PA-112, PA-113, PA-114, PA-115, PA-116, PA-117, PA-118, PA-119, PA-120, PA-121, PA-122, PA-123, PA-124, 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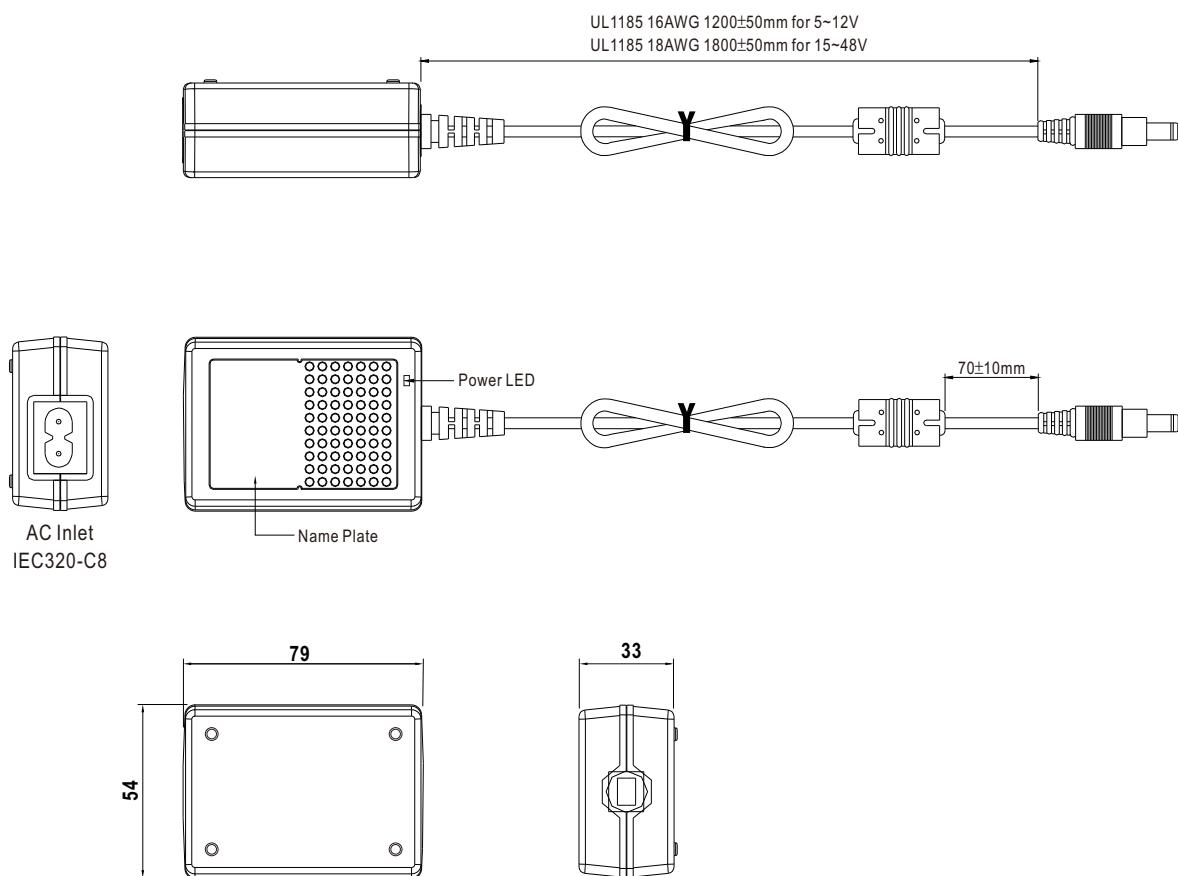


18WAC-DC Reliable Green Industrial Adaptor

GST18B series

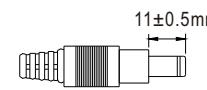
**■ Derating Curve****■ Static Characteristics****■ Mechanical Specification**

Unit:mm



**■ DC output plug**

- ◎ Standard plug: P1J

P1J	Pin Assignment
	
5.5 2.1  11±0.5mm 	Outside $\ominus$  $\oplus$ Inside

- ◎ DC plug changeable through:

(1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)

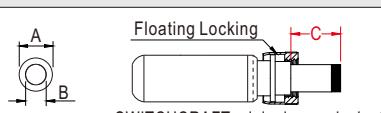
(2) Quick adapter accessory (sold separately without MOQ)

Please refer to below table and online selection guide : [https://www.meanwell.com/upload/pdf/DC\\_plug.pdf](https://www.meanwell.com/upload/pdf/DC_plug.pdf)

Example quick adapter accessory:



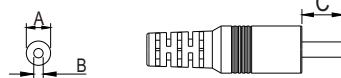
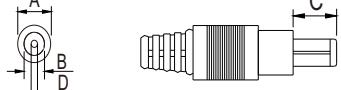
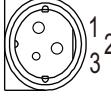
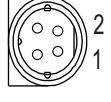
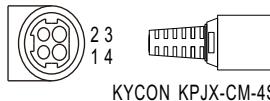
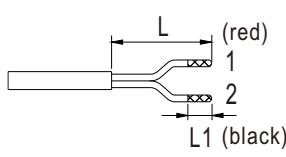
- ◎ Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style	Type No.	A	B	C	Quick Adapter Accessory
		OD	ID	L	
 	P1I	5.5	2.1	9.5	Available (Current rating: 7.5A max.)
	P1L	5.5	2.5	9.5	
	P1M	5.5	2.5	11.0	
	P1IR	5.5	2.1	9.5	
	P1JR	5.5	2.1	11.0	
	P1LR	5.5	2.5	9.5	
	P1MR	5.5	2.5	11.0	
Barrel Style	Type No.	A	B	C	None
		OD	ID	L	
 	P2I	5.5	2.1	9.5	
	P2J	5.5	2.1	11.0	
	P2L	5.5	2.5	9.5	
	P2M	5.5	2.5	11.0	
	P2IR	5.5	2.1	9.5	
	P2JR	5.5	2.1	11.0	
	P2LR	5.5	2.5	9.5	
Lock Style	Type No.	A	B	C	None
		OD	ID	L	
 	P2S(S761K)	5.53	2.03	12.06	
	P2K(761K)	5.53	2.54	12.06	
	P2C(S760K)	5.53	2.03	9.52	
	P2D(760K)	5.53	2.54	9.52	
					



18WAC-DC Reliable Green Industrial Adaptor

GST18B series

Min. Pin Style	Type No.	A	B	C	Quick Adapter Accessory	
		OD	ID	L		
  EIAJ equivalent	P3A	2.35	0.7	11.0	Available (Current rating: 5A max.)	
	P3B	4.0	1.7	11.0		
	P3C	4.75	1.7	11.0		
  EIAJ equivalent	Type No.	A	B	C	Available (Current rating: 7.5A max.)	
	P4A	OD	ID	L		
		5.5	3.4	11.0		
  KYCON KPPX-3P equivalent	Type No.	Pin Assignment			Available (Current rating: 7.5A max.)	
	R6B	PIN No.	Output			
		1	+Vo			
  KYCON KPPX-4P equivalent	Type No.	Pin Assignment			Available (Current rating: 7.5A max.)	
	R7B	PIN No.	Output			
		1	+Vo			
		2	-Vo			
		3	-Vo			
  KYCON KPJX-CM-4S equivalent	Type No.	Pin Assignment			None	
	R7BF	PIN No.	Output			
		1	+Vo			
		2	-Vo			
 	Type No.	Pin Assignment			Available (Current rating: 7.5A max.)	
	R1B	PIN No.	Output			
		1	-Vo			
		2	-Vo			
		3	+Vo			
  Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)	Type No.	Pin Assignment			None	
	by customer	PIN No.	Output			
		1	+Vo			
		2	-Vo			

### ■ Installation Manual

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