



### ■ 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](#)
- 3 years warranty

### ■ Applications

- Consumer electronic devices
- Telecommunication devices
- Office facilities
- Industrial equipments

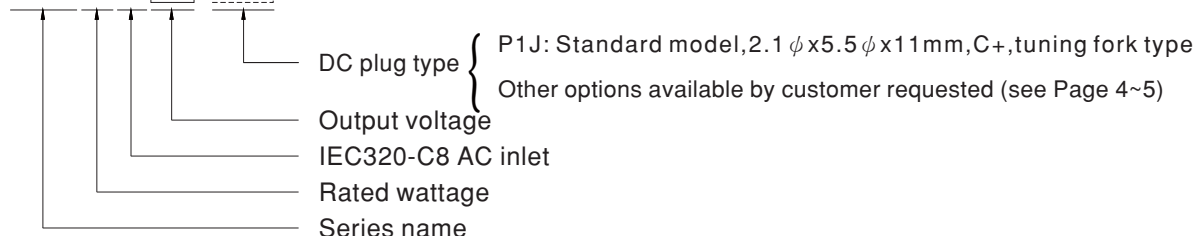
### ■ Description

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

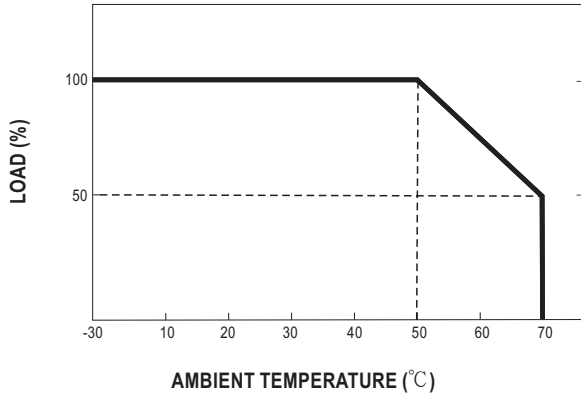
**GST 18 B 05 -P1J**



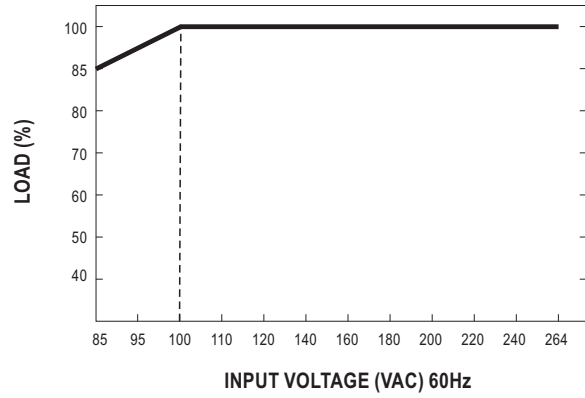
**SPECIFICATION**

ORDER NO.	GST18B05-P1J	GST18B07-P1J	GST18B09-P1J	GST18B12-P1J	GST18B15-P1J	GST18B18-P1J	GST18B24-P1J	GST18B28-P1J	GST18B48-P1J		
<b>OUTPUT</b>	<b>SAFETY MODEL NO.</b>	GST18B05	GST18B07	GST18B09	GST18B12	GST18B15	GST18B18	GST18B24	GST18B28	GST18B48	
	<b>DC VOLTAGE</b> <small>Note.2</small>	5V	7.5V	9V	12V	15V	18V	24V	28V	48V	
	<b>RATED CURRENT</b>	3.0A	2.0A	2.0A	1.50A	1.20A	1.0A	0.75A	0.64A	0.375A	
	<b>CURRENT RANGE</b>	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	
	<b>RATED POWER (max.)</b>	15W	15W	18W	18W	18W	18W	18W	18W	18W	
	<b>RIPPLE &amp; NOISE (max.)</b> <small>Note.3</small>	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	
	<b>VOLTAGE TOLERANCE</b> <small>Note.4</small>	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	
	<b>LINE REGULATION</b> <small>Note.5</small>	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	<b>LOAD REGULATION</b> <small>Note.6</small>	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%	
<b>SETUP, RISE, HOLD UP TIME</b>	1000ms, 30ms, 50ms/230VAC      1500ms, 30ms, 15ms/115VAC at full load										
<b>INPUT</b>	<b>VOLTAGE RANGE</b> <small>Note.7</small>	85 ~ 264VAC									
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz									
	<b>EFFICIENCY (Typ.)</b>	81%	85%	85%	86%	87%	88%	88%	88.5%	89%	
	<b>AC CURRENT</b>	0.5A / 115VAC      0.3A / 230VAC									
	<b>INRUSH CURRENT (max.)</b>	Cold start 35A / 115VAC      65A / 230VAC									
	<b>LEAKAGE CURRENT(max.)</b>	0.25mA / 240VAC									
<b>PROTECTION</b>	<b>OVERLOAD</b>	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed									
	<b>OVER VOLTAGE</b>	110 ~ 140% rated output voltage Protection type : Clamp by zener diode, output short									
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>	-30 ~ +70°C (Refer to "Derating Curve")									
	<b>WORKING HUMIDITY</b>	20% ~ 90% RH non-condensing									
	<b>STORAGE TEMP., HUMIDITY</b>	-40 ~ +85°C, 10 ~ 95% RH non-condensing									
	<b>TEMP. COEFFICIENT</b>	±0.03% / °C (0 ~ 50°C)									
<b>SAFETY &amp; EMC (Note. 9)</b>	<b>VIBRATION</b>	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
	<b>SAFETY STANDARDS</b> <small>Note. 8</small>	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									
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P:4242VDC									
	<b>ISOLATION RESISTANCE</b>	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
	<b>EMC EMISSION</b>	<b>Parameter</b>	<b>Standard</b>					<b>Test Level / Note</b>			
		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			
	Voltage flicker	BS EN/EN61000-3-3					-----				
	<b>EMC IMMUNITY</b>	BS EN/EN55035									
<b>Parameter</b>		<b>Standard</b>					<b>Test Level / Note</b>				
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				
Magnetic field immunity		BS EN/EN61000-4-8					Level 2, 3A/m				
Voltage dips , interruption	BS EN/EN61000-4-11					>95% dip 0. 5 periods, 30% dip 25 periods, >95% interruptions 250 periods					
<b>OTHERS</b>	<b>MTBF</b>	3879.7K hrs min. Telcordia SR-332 (Bellcore) ; 668.4K hrs min. MIL-HDBK-217F (25°C)									
	<b>DIMENSION</b>	79*54*33mm (L*W*H)									
	<b>PACKING</b>	191.5g; 60pcs/12.5Kg/1.15CUFT									
<b>CONNECTOR</b>	<b>PLUG</b>	See page 4~5 ; Other type available by customer requested									
	<b>CABLE</b>	See page 4~5 ; Other type available by customer requested									
<b>NOTE</b>	1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient. 2.DC voltage: The output voltage set at point measure by plug terminal & 50% load. 3.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor. 4.Tolerance: includes set up tolerance, line regulation, load regulation. 5.Line regulation is measured from low line to high line at rated load. 6.Load regulation is measured from 10% to 100% rated load. 7.Derating may be needed under low input voltage. Please check the derating curve for more details. 8.The demand for Malaysia safety is processed with the order no. GST18B □ -SIRIM by request. Please contact MEAN WELL for details. 9.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 EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a> ) ※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>										

■ Derating Curve

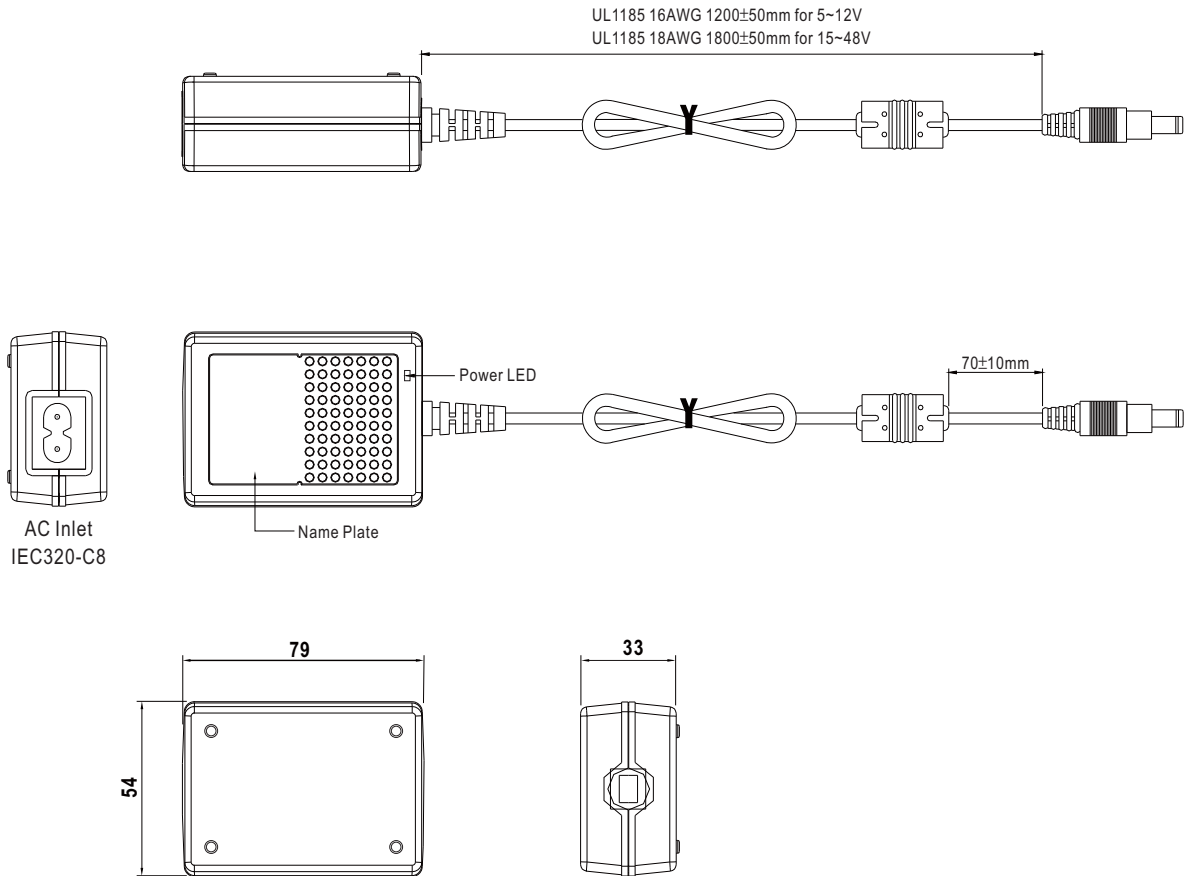


■ Static Characteristics



■ Mechanical Specification

Unit:mm



■ DC output plug

☉ Standard plug: P1J

P1J	Pin Assignment
	Outside  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)



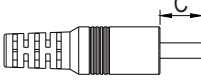


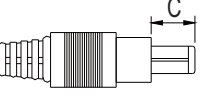








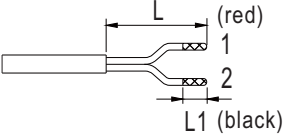
Please refer to below table and online selection guide : [https://www.meanwell.com/upload/pdf/DC\\_plug.pdf](https://www.meanwell.com/upload/pdf/DC_plug.pdf)

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	
	(Straight)	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	
	(Right-angled)	P1IR	5.5	2.1	9.5	
		P1JR	5.5	2.1	11.0	
		P1LR	5.5	2.5	9.5	
Barrel Style		Type No.	A	B	C	
			OD	ID	L	
	(Straight)	P2I	5.5	2.1	9.5	None
		P2J	5.5	2.1	11.0	
		P2L	5.5	2.5	9.5	
		P2M	5.5	2.5	11.0	
	(Right-angled)	P2IR	5.5	2.1	9.5	
		P2JR	5.5	2.1	11.0	
		P2LR	5.5	2.5	9.5	
		P2MR	5.5	2.5	11.0	
Lock Style		Type No.	A	B	C	
			OD	ID	L	
	P2S(S761K)	5.53	2.03	12.06	None	
	P2K(761K)	5.53	2.54	12.06		
	P2C(S760K)	5.53	2.03	9.52		
	P2D(760K)	5.53	2.54	9.52		

Min. Pin Style	Type No.	A	B	C	Quick Adapter Accessory	
		OD	ID	L		
   EIAJ equivalent	P3A	2.35	0.7	11.0	<b>Available</b> (Current rating: 5A max.)	
	P3B	4.0	1.7	11.0		
	P3C	4.75	1.7	11.0		
Center Pin Style	Type No.	A	B	C	D	Quick Adapter Accessory
		OD	ID	L	Center Pin	
   EIAJ equivalent	P4A	5.5	3.4	11.0	1.0	<b>Available</b> (Current rating: 7.5A max.)
	P4B	6.5	4.4	11.0	1.4	
	P4C	7.4	5.1	11.0	0.6	
Min. DIN 3 Pin with Lock (male)	Type No.	Pin Assignment		Quick Adapter Accessory		
		PIN No.	Output			
   KYCON KPPX-3P equivalent	R6B	1	+Vo	<b>Available</b> (Current rating: 7.5A max.)		
		2	-Vo			
		3	+Vo			
Min. DIN 4 Pin with Lock (male)	Type No.	Pin Assignment		Quick Adapter Accessory		
		PIN No.	Output			
   KYCON KPPX-4P equivalent	R7B	1	+Vo	<b>Available</b> (Current rating: 7.5A max.)		
		2	-Vo			
		3	-Vo			
		4	+Vo			
Min. DIN 4 Pin with Lock (female)	Type No.	Pin Assignment		Quick Adapter Accessory		
		PIN No.	Output			
   KYCON KPJX-CM-4S equivalent	R7BF	1	+Vo	None		
		2	-Vo			
		3	-Vo			
		4	+Vo			
DIN 5 Pin (male)	Type No.	Pin Assignment		Quick Adapter Accessory		
		PIN No.	Output			
  	R1B	1	-Vo	<b>Available</b> (Current rating: 7.5A max.)		
		2	-Vo			
		3	+Vo			
		4	-Vo			
		5	+Vo			
Stripped and tinned leads	Type No.	Pin Assignment		Quick Adapter Accessory		
		PIN No.	Output			
  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)	by customer	1	+Vo	None		
		2	-Vo			