

SPECIFICATION



Features:

- Universal AC input / Full range
- No load power consumption<0.5W
- Pass energy star(CEC) level IV for 5~48V output
- Meet EISA 2007 (Energy Independence and Security Act) for 5 \sim 48V
- 3 pole AC inlet IEC320-C14
- Class I power (with earth pin)
- Full output 3~48V safety approval
- Protections: Short circuit / Overload / Over voltage
- Fully enclosed plastic case
- LED indicator for power on
- Approvals: UL / CUL / TUV / BSMI / CB / FCC / CE
- Pass LPS for 9~48V output
- 2 years warranty

	GS18A03-P1J	GS18A05-P1J	GS18A07-P1J	GS18A09-P1J	GS18A12-P1J	GS18A15-P1J	GS18A18-P1J	GS18A24-P1J	GS18A28-P1J	GS18A48-P1
SAFETY MODEL NO.	GS18A03	GS18A05	GS18A07	GS18A09	GS18A12	GS18A15	GS18A18	GS18A24	GS18A28	GS18A48
DC VOLTAGE Note.2	3.3V	5V	7.5V	9V	12V	15V	18V	24V	28V	48V
RATED CURRENT	3.0A	3.0A	2.0A	2.0A	1.50A	1.20A	1.0A	0.75A	0.64A	0.375A
CURRENT RANGE	0 ~ 3.0A	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.)	10W	15W	15W	18W	18W	18W	18W	18W	18W	18W
RIPPLE & NOISE (max.) Note.3	50mVp-p	50mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	180mVp-p	240mVp-p	240mVp-p
VOLTAGE TOLERANCE Note.4		±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%
	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	±5.0%	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±2.0%	±2.0%	±2.0%
SETUP, RISE, HOLD UP TIME							=0.070			
VOLTAGE RANGE	500ms, 20ms, 50ms/230VAC 500ms, 20ms, 15ms/115VAC at full load 90 ~ 264VAC 135 ~ 370VDC									
FREQUENCY RANGE	47 ~ 63Hz									
EFFICIENCY (Typ.)	68%	73%	79%	79%	81%	81%	82%	84%	84%	85%
AC CURRENT		0.5A/100VAC								30,0
INRUSH CURRENT (max.)	45A / 230VAC									
LEAKAGE CURRENT(max.)	0.75mA / 240VAC									
	110 ~ 150% rated output power									
OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed									
ROTECTION	105 ~ 135% rated output voltage									
OVER VOLTAGE	Protection type : Clamp by zener diode, output short									
WORKING TEMP.	0 ~ +50°C (Refer to output load derating curve)									
WORKING HUMIDITY	20% ~ 90% RH non-condensing									
STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH									
TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)									
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
SAFETY STANDARDS	UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336									
WITHSTAND VOLTAGE	I/P-O/P:4242VDC , I/P-FG:2121VDC									
ISOLATION RESISTANCE	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH									
EMI CONDUCTION & RADIATION	Compliance to EN55022 class B, FCC PART 15 / CISPR22 class B, CNS13438 class B Compliance to EN61000-3-2,3									
HARMONIC CURRENT										
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A									
MTBF	500Khrs min. MIL-HDBK-217F(25°ℂ)									
DIMENSION	93*54*36mm (L*W*H) 230g; 60pcs / 15kg / CARTON									
PACKING										
PLUG	Standard type P1J: 2.1ϕ * 5.5ϕ * 11mm, tuning fork type, center positive for stock; Other type available by customer requested									
CABLE	Standard type UL1185 6ft (4FT for 3.3 ~ 5V output) for stock; Other type available by customer requested									
2.DC voltage: The output volt 3.Ripple & noise are measure 4.Tolerance: includes set up t 5.Line regulation is measured 6.Load regulation is measured	age set at poor ed at 20MHz olerance, line from low line d from 20% t	by using a 1, e regulation, le to high line o 100% rated	by plug term 2" twisted pa oad regulation at rated load d load	inal & 50% lo ir terminated n.	oad. with a 0.1uf	•		be re-confirm	ned that it sti	II meets
TE VI SA WIS EN MIT PA	EMP. COEFFICIENT BRATION AFETY STANDARDS ITHSTAND VOLTAGE OLATION RESISTANCE MI CONDUCTION & RADIATION ARMONIC CURRENT MS IMMUNITY TBF MENSION ACKING LUG ABLE 1. All parameters are specified 2. DC voltage: The output volt 3. Ripple & noise are measure 4. Tolerance: includes set up to 5. Line regulation is measured 7. The power supply is consid-	EMP. COEFFICIENT ±0.03% / °C BRATION 10 ~ 500Hz, AFETY STANDARDS UL60950-1, ITHSTAND VOLTAGE //P-O/P:424 OLATION RESISTANCE //P-O/P, //P- MI CONDUCTION & RADIATION Compliance ARMONIC CURRENT Compliance MS IMMUNITY Compliance TBF 500Khrs mir MENSION 93*54*36mm ACKING 230g; 60pcs LUG Standard ty, ABLE Standard ty, I.All parameters are specified at 230VAC 2.DC voltage: The output voltage set at pc 3.Ripple & noise are measured at 20MHz 4.Tolerance: includes set up tolerance, line 5.Line regulation is measured from 10% line 5.Line regulation is measured from 20% t 7.The power supply is considered a comp	EMP. COEFFICIENT BRATION 10 ~ 500Hz, 2G 10min./1c AFETY STANDARDS UL60950-1, CSA C22.2, 1 ITHSTAND VOLTAGE U/P-0/P:4242VDC, 1/P-FG OLATION RESISTANCE I/P-0/P, 1/P-FG:100M Ohr II CONDUCTION & RADIATION Compliance to EN55022 of ARMONIC CURRENT Compliance to EN61000- MS IMMUNITY S00Khrs min. MIL-HDBK MENSION 93*54*36mm (L*W*H) ACKING 230g; 60pcs / 15kg / CAF Standard type P1J: 2.1 ABLE Standard type P1J: 2.1 ABLE Standard type UL1185 6ft I.All parameters are specified at 230VAC input, rated le 2.DC voltage: The output voltage set at point measure 3. Fiople & noise are measured at 20MHz by using a 1: 4. Tolerance: includes set up tolerance, line regulation, I 5. Line regulation is measured from low line to high line 8. Load regulation is measured from 20% to 100% rated 7. The power supply is considered a component which 7. The power supply is considered a component which	### ### ##############################	### BRATION ### 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. ear ### 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. ear ### 11 ~ 500Hz, 2G 10min./1cycle, period for 60min. ear ### 12 STANDARDS ### 12 UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CN. ### 14 CNDUCTION & RESISTANCE ### 16 CONDUCTION & RADIATION ### 16 CONDUCTION & RADIATION ### 16 COMPUICTION & RADIATION ### 17 COMPUICTION & RADIATION & RADIATION ### 17 COMPUICTION & RADIATION & RADIATION ### 17 COMPUICTION & RADIATION &	EMP. COEFFICIENT $\pm 0.03\%$ / $^{\circ}$ C (0 ~ 50 $^{\circ}$ C) BRATION $\pm 0.03\%$ / $^{\circ}$ C (0 ~ 50 $^{\circ}$ C) BRATION $\pm 0.03\%$ / $^{\circ}$ C (0 ~ 50 $^{\circ}$ C) BRATION $\pm 0.03\%$ / $^{\circ}$ C (0 ~ 50 $^{\circ}$ C) BRATION $\pm 0.03\%$ / $^{\circ}$ C (0 ~ 50 $^{\circ}$ C) AFETY STANDARDS UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336 ITHSTAND VOLTAGE I/P-O/P;4242VDC , I/P-FG:2121VDC OLATION RESISTANCE I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25 $^{\circ}$ C / 70 $^{\circ}$ RH MI CONDUCTION & RADIATION Compliance to EN55022 class B, FCC PART 15 / CISPR22 class IARMONIC CURRENT Compliance to EN61000-3-2,3 MS IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, crite TBF 500Khrs min. MIL-HDBK-217F(25 $^{\circ}$ C) MENSION 93*54*36mm (L*W*H) ACKING 230g ; 60pcs / 15kg / CARTON LUG Standard type P1J: $\pm 0.00\%$ 2. $\pm 0.00\%$ 7. The measure by plug terminal & 50 $^{\circ}$ 6 load. B. Ripple & noise are measured at 230VAC input, rated load, 25 $^{\circ}$ C 70 $^{\circ}$ 6 RH ambient. B. Line regulation is measured from 100 line to high line at rated load. B. Load regulation is measured from 20 $^{\circ}$ 6 to 100 $^{\circ}$ 6 rated load. B. Load regulation is measured from 200% to 100 $^{\circ}$ 6 rated load. B. Tole repulation is measured from 200% to 100 $^{\circ}$ 6 rated load. B. Tole repulation is measured from 200% to 100 $^{\circ}$ 6 rated load. B. Tole repulation is measured from 200% to 100 $^{\circ}$ 6 rated load. B. Tole repulation is measured from 200% to 100 $^{\circ}$ 6 rated load. B. Tole repulation is measured from 200% to 100 $^{\circ}$ 6 rated load. B. Tole repulation is measured from 200% to 100 $^{\circ}$ 6 rated load. B. Tole repulation is measured from 200% to 100 $^{\circ}$ 6 rated load. B. Tole repulation is measured from 200% to 100 $^{\circ}$ 6 rated load.	### ### ##############################	### Description #### Description ####################################	### Description ####################################	### Description ### De



