

## 220WAC-DC Single Output Desktop

## GS220 series



Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.91
- No load power consumption<0.5W</li>
- \* Energy star level  $\operatorname{V}(\mathsf{CEC})$  compliant
- Meet EISA 2007(Energy Independence and Security Act)
- 3 pole AC inlet IEC320-C14
- Class  ${\tt I}$  power ( with earth pin)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- LED indicator for power on
- Approvals: UL / CUL / TUV / BSMI / CCC / CB / FCC / CE
- 2 years warranty



## SPECIFICATION

ORDER NO.		GS220A12-R7B	GS220A15-R7B	GS220A20-R7B	GS220A24-R7B	GS220A48-R7B
	SAFETY MODEL NO.	GS220A12	GS220A15	GS220A20	GS220A24	GS220A48
OUTPUT	DC VOLTAGE Note.2	12V	15V	20V	24V	48V
	RATED CURRENT	15A	13.4A	11A	9.2A	4.6A
	CURRENT RANGE	0 ~ 15A	0~13.4A	0~11A	0~9.2A	0~4.6A
	RATED POWER (max.)	180W	201W	220W	221W	221W
	RIPPLE & NOISE (max.) Note.3		100mVp-p	150mVp-p	180mVp-p	240mVp-p
	VOLTAGE TOLERANCE Note.4		±5.0%	±4.0%	±3.0%	±2.0%
	LINE REGULATION Note.5		±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	+5.0%	±5.0%	±4.0%	±3.0%	±2.0%
		1500ms. 20ms / 230VAC	1500ms. 20ms / 115\			
	HOLD UP TIME (Typ.)	20ms / 230VAC 20ms / 115VAC at full load				
INPUT		90 ~ 264VAC 135 ~ 370VDC				
	FREQUENCY RANGE	47~63Hz				
	POWER FACTOR (Typ.)		PF>0.98 / 115VAC at full loa	d		
	( ) )	90%	90%	92%	02 5%	04 59/
	EFFICIENCY (Typ.)					
		4A/115VAC 2A/230VAC				
	INRUSH CURRENT (max.)	120A/230VAC				
	LEAKAGE CURRENT(max.)	1mA/240VAC				
PROTECTION	OVERLOAD	105 ~ 135% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	OVER VOLTAGE	105 ~ 135% rated output voltage				
		Protection type : Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	95℃±5℃(TSW1) detect on heatsink of power transistor				
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down				
ENVIRONMENT	WORKING TEMP.	-10 ~ +60 $^\circ\!\mathrm{C}$ (Refer to output load derating curve)				
	WORKING HUMIDITY	20% ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 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 & EMC (Note. 6)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943 approved				
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
	<b>EMI CONDUCTION &amp; RADIATION</b>	Compliance to EN55022 class B, FCC PART 15 class B / CISPR22 class B, CNS13438 class B, GB9254 class B				
	HARMONIC CURRENT	Compliance to EN61000-3-2,3, GB17625.1				
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A				
OTHERS	MTBF	191.3Khrs min. MIL-HDBK-217F(25℃)				
	DIMENSION	210*85*46mm (L*W*H)				
	PACKING	1.1Kg; 12pcs/14.2Kg/0.73CUFT				
CONNECTOR	PLUG	See page 2 ; Other type available by customer requested				
	CABLE		available by customer requ			
NOTE	<ul> <li>1.All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.</li> <li>2.DC voltage: The output voltage set at point measure by plug terminal &amp; 50% load.</li> <li>3.Ripple &amp; noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf &amp; 47uf capacitor.</li> <li>4.Tolerance: includes set up tolerance, line regulation, load regulation.</li> <li>5.Line regulation is measured from low line to high line at rated load.</li> <li>6.The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</li> <li>7. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.</li> <li>8. Derating may be needed under low input voltage. Please check the derating curve for more details.</li> </ul>					



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