280W AC-DC Single Output Desktop

GS280 series



■ Features :

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- Built-in active PFC function, PF>0.95
- Fanless design, cooling by free air convection
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- Approvals: UL / CUL / PSE / TUV / BSMI / CCC / CB / FCC / CE
- Class Ⅰ power (with earth pin)
- LED indicator for power on
- No load power consumption<0.5W
- ErP step2 compliant (level Ⅴ)
- NRCan compliant
- MEPS compliant
- Meet EISA 2007(Energy Independence and Security Act)
- 2 years warranty

(except for 48V)

SPECIFICATION

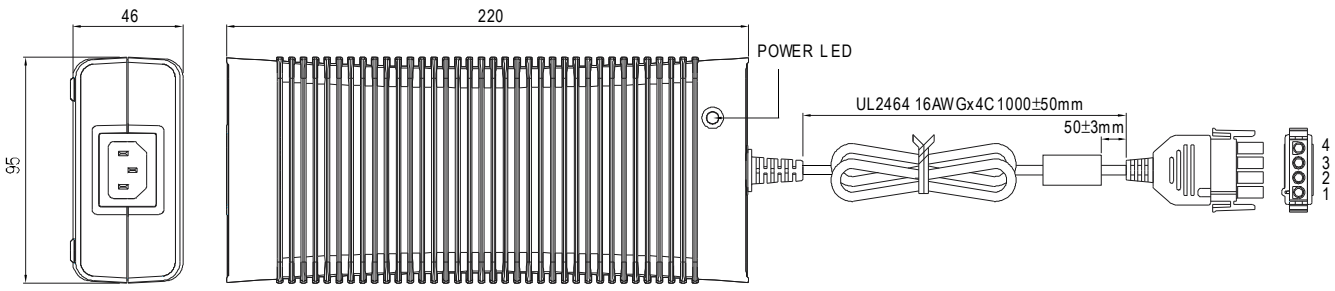
ORDER NO.		GS280A12-C4P	GS280A15-C4P	GS280A20-C4P	GS280A24-C4P	GS280A48-C4P
OUTPUT	SAFETY MODEL NO.	GS280A12	GS280A15	GS280A20	GS280A24	GS280A48
	DC VOLTAGE Note.2	12V	15V	20V	24V	48V
	RATED CURRENT	18.5A	16A	13A	11.67A	5.84A
	CURRENT RANGE	0 ~ 18.5A	0 ~ 16A	0 ~ 13A	0 ~ 11.67A	0 ~ 5.84A
	RATED POWER (max.)	222W	240W	260W	280.08W	280.32W
	RIPPLE & NOISE (max.) Note.3	120mVp-p	120mVp-p	150mVp-p	280mVp-p	280mVp-p
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±4.0%	±3.0%	±2.0%
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±5.0%	±5.0%	±4.0%	±3.0%	±2.0%
	SETUP, RISE TIME Note.6	2000ms, 20ms / 230VAC 2000ms, 20ms / 115VAC at full load				
	HOLD UP TIME (Typ.)	16ms / 230VAC 16ms / 115VAC at full load				
INPUT	VOLTAGE RANGE Note.7	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.95 / 230VAC PF>0.98 / 115VAC at full load				
	EFFICIENCY (Typ.)	89%	89.5%	92%	93%	94%
	AC CURRENT (Typ.)	3A / 115VAC 1.5A / 230VAC				
	INRUSH CURRENT (max.)	120A / 230VAC				
	LEAKAGE CURRENT(max.)	1.5mA / 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	100℃±10℃(RTH2)				
		Protection type : Shut down o/p voltage, re-power on to recover				
ENVIRONMENT	WORKING TEMP.	-30 ~ +60℃ (Refer to "Derating Curve")				
	WORKING HUMIDITY	20% ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03% / ℃ (0~40℃)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC (Note. 8)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943, J60950-1(except for 48V) approved				
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH				
	EMC EMISSION	Compliance to EN55022 class B, EN61000-3-2,3, FCC PART 15 / CISPR22 class B, CNS13438 class B, GB9254 class B				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A				
OTHERS	MTBF	173.6Khrs min. MIL-HDBK-217F(25℃)				
	DIMENSION	220*95*46mm (L*W*H)				
	PACKING	1.25Kg; 12pcs/16Kg/1.27CUFT				
CONNECTOR	PLUG	See page 2 ; Other type available by customer requested				
	CABLE	See page 2 ; Other type available by customer requested				

NOTE

1. All parameters are specified at 230VAC input, rated load, 25℃ 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 0.1uf & 47uf 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. 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.
7. Derating may be needed under low input voltage. Please check the derating curve for more details.
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 EMC directives.

■ Mechanical Specification

Case No. GS280A Unit:mm



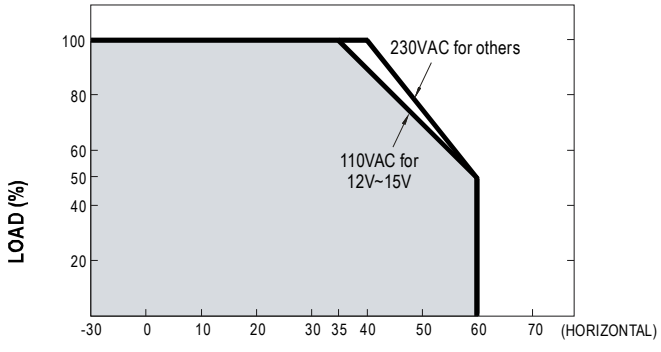
■ Plug Assignment

Standard male plug(power supply side): AMP 1-480702-0 equivalent

C4P		
	PIN NO.	OUTPUT
	1,2	+V
	3,4	-V

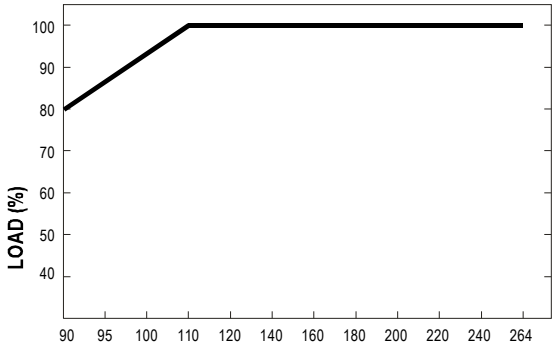
Female plug(customer side, not provide with the power supply): AMP 1-480703-0 equivalent

■ Derating Curve



AMBIENT TEMPERATURE (℃)

■ Static Characteristics



INPUT VOLTAGE (VAC) 60Hz