GS220 Series

220W AC-DC Industrial Adaptor





Features

- Universal AC input / Full range
- Built-in active PFC function
- No load power consumption <0.5W
- Energy Efficiency Level V

- Complies with EISA 2007, NRCan, AU/NZ MEPS and EU ErP
 3 pole AC inlet IEC320-C14
 Protections: Short circuit / Overload / Over voltage/ Over Temperature
- Class I power (with earth pin)
- Fully enclosed plastic case
- LED indicator for power on
- 2 years warranty

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Voltage	90 ~ 264VAC 1	90 ~ 264VAC 127 ~ 370VDC						
Frequency	47 ~ 63 Hz							
Power Factor	PF >0.91/230VAC PF>0.98/115 VAC at full load 4A/115VAC 2A/230VAC							
AC Current (Typ.)								
Inrush Current (Typ.)	120A/230VAC	•						
Leakage Current (max)	1.5mA/240VAC							
Model Number	GS220A12-R7B	GS220A15-R7B	G\$220A20-R7B	GS220A24-R7B	GS220A48-R7B			
DC Voltage	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	180W	201W	220W	221W	221W			
R&N	80mVp-p	100mVp-p	150mVp-p	180mVp-p	240mVp-p			
Efficiency	90%	90%	92%	93.5%	94.5%			
Voltage Tolerance	±5.0%	±5.0%	±4.0%	±3.0%	±2.0%			
Line Regulation	±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	2000ms, 20ms/230VAC 2000ms, 20ms/115VAC at full load							
Hold Up Time	20ms/230VAC 20ms/115VAC at full load							
Overload PROTECTION Over Voltage	105 ~ 135% rated output power							
	Protection type: hiccup mode, recovers automatically after fault condition is removed							
	105 ~ 135% rated output power							
Over Temperature	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down							
	-30 ~ +60°C (Refer to Derating Curve)							
• .	20 ~ 90% RH non-condensing							
• .	±0.03%/°C (0-50°C)							
•								
	10 ~ 500Hz, 2G 10 min./1cycle, period for 60min. each along X, Y, Z axes							
	UL60950-1, CSA C22.2, TUV EN60950-1, BSMI CNS14336, CCC GB4943 approved							
	, ,							
EMC Emission	Compliance to EN55022 class B, EN61000-3-2,3, FCC PART 15 / CISPR22 class B, CNS13438 class B, GB9254, GB17625.1							
EMC Immunity								
	· /							
Packing	1.1kg; 12pcs/14.2	2Kg/0.73CUFT						
	Power Factor AC Current (Typ.) Inrush Current (Typ.) Leakage Current (max) Model Number DC Voltage Rated Current Current Range Rated Power R&N Efficiency Voltage Tolerance Line Regulation Load Regulation Setup, Rise Time Hold Up Time Overload Over Voltage Over Temperature Working Temperature Working Humidity Storage Temperature Temp. Coefficient Vibration Safety Standards Withstand Voltage Isolation Resistance EMC Emission EMC Immunity MTBF	Frequency 47 ~ 63 Hz Power Factor PF > 0.91/230VAC AC Current (Typ.) 4A/115VAC Inrush Current (Typ.) 120A/230VAC Leakage Current (max) 1.5mA/240VAC Model Number GS220A12-R7B DC Voltage 12V Rated Current 15A Current Range 0 ~ 15A Rated Power 180W R&N 80mVp-p Efficiency 90% Voltage Tolerance ±5.0% Line Regulation ±1.0% Load Regulation ±5.0% Setup, Rise Time 2000ms, 20ms/2 Hold Up Time 20ms/230VAC Overload 105 ~ 135% rate Protection type: S Over Voltage Over Voltage 105 ~ 135% rate Working Temperature ¬30 ~ +60°C (Refe Working Humidity 20 ~ 90% RH non Storage Temperature -40 ~ +85°C, 10 - Working Humidity 20 ~ 90% RH non Storage Temperature -40 ~ +85°C, 10 - Working Humidity <td< td=""><td>Frequency 47 ~ 63 Hz Power Factor PF >0.91/230VAC PF>0.98/115 VAC OF AC Current (Typ.) 4A/115VAC 2A/230VAC Inrush Current (Typ.) 120A/230VAC Leakage Current (max) 1.5mA/240VAC Model Number GS220A12-R7B GS220A15-R7B DC Voltage 12V 15V Rated Current 15A 13.4A Current Range 0 ~ 15A 0 ~ 13.4A Rated Power 180W 201W R&N 80mVp-p 100mVp-p Efficiency 90% 90% Voltage Tolerance ±5.0% ±5.0% Line Regulation ±1.0% ±1.0% Load Regulation ±5.0% ±5.0% Setup, Rise Time 200ms, 20ms/230VAC 200ms, 215VAC Hold Up Time 20ms/230VAC 20ms/115VAC at for Overload 105 ~ 135% rated output power Protection type: shutdown o/p voltation type: shutdown o/p voltation 70 ~ 135% rated output power Protection type: Shutdown o/p voltation 20 ~ 90% RH non-condensing Stora</td><td>Frequency 47 ~ 63 Hz Power Factor PF >0.91/230VAC PF>0.98/115 VAC at full load AC Current (Typ.) 4A/115VAC 2A/230VAC Inrush Current (Typ.) 120A/230VAC Section 1.5mA/240VAC Model Number 6S220A12-R78 6S220A15-R7B 6S220A20-R7B DC Voltage 12V 15V 20V Rated Current 15A 13.4A 11A Current Range 0 ~ 15A 0 ~ 13.4A 0 ~ 11A Rated Power 180W 201W 220W R&N 80mVp-p 100mVp-p 150mVp-p Efficiency 90% 90% 92% Voltage Tolerance ±5.0% ±5.0% ±4.0% Line Regulation ±1.0% ±1.0% ±1.0% Load Regulation ±5.0% ±5.0% ±4.0% Setup, Rise Time 2000ms, 20ms/230VAC 2000ms, 20ms/115VAC at full load Overload 105 ~ 135% rated output power Protection type: hiccup mode, recovers automatically after the protection type: Shutdown o/p voltage, recovers automatically after the protection type: Shutdown o/p voltage, r</td><td> Frequency</td><td> Frequency</td></td<>	Frequency 47 ~ 63 Hz Power Factor PF >0.91/230VAC PF>0.98/115 VAC OF AC Current (Typ.) 4A/115VAC 2A/230VAC Inrush Current (Typ.) 120A/230VAC Leakage Current (max) 1.5mA/240VAC Model Number GS220A12-R7B GS220A15-R7B DC Voltage 12V 15V Rated Current 15A 13.4A Current Range 0 ~ 15A 0 ~ 13.4A Rated Power 180W 201W R&N 80mVp-p 100mVp-p Efficiency 90% 90% Voltage Tolerance ±5.0% ±5.0% Line Regulation ±1.0% ±1.0% Load Regulation ±5.0% ±5.0% Setup, Rise Time 200ms, 20ms/230VAC 200ms, 215VAC Hold Up Time 20ms/230VAC 20ms/115VAC at for Overload 105 ~ 135% rated output power Protection type: shutdown o/p voltation type: shutdown o/p voltation 70 ~ 135% rated output power Protection type: Shutdown o/p voltation 20 ~ 90% RH non-condensing Stora	Frequency 47 ~ 63 Hz Power Factor PF >0.91/230VAC PF>0.98/115 VAC at full load AC Current (Typ.) 4A/115VAC 2A/230VAC Inrush Current (Typ.) 120A/230VAC Section 1.5mA/240VAC Model Number 6S220A12-R78 6S220A15-R7B 6S220A20-R7B DC Voltage 12V 15V 20V Rated Current 15A 13.4A 11A Current Range 0 ~ 15A 0 ~ 13.4A 0 ~ 11A Rated Power 180W 201W 220W R&N 80mVp-p 100mVp-p 150mVp-p Efficiency 90% 90% 92% Voltage Tolerance ±5.0% ±5.0% ±4.0% Line Regulation ±1.0% ±1.0% ±1.0% Load Regulation ±5.0% ±5.0% ±4.0% Setup, Rise Time 2000ms, 20ms/230VAC 2000ms, 20ms/115VAC at full load Overload 105 ~ 135% rated output power Protection type: hiccup mode, recovers automatically after the protection type: Shutdown o/p voltage, recovers automatically after the protection type: Shutdown o/p voltage, r	Frequency	Frequency		

^{1.} All parameters NOT specially mentioned are measured at 230VAC input, rated load, 25°C of ambient temperature.

2.DC voltage: the output voltage set to point measure by plug terminal & 50% load.

3. Ripple & noise are measured at 20MHz by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

4. Tolerance: includes set up tolerance, line regulation, load regulation.

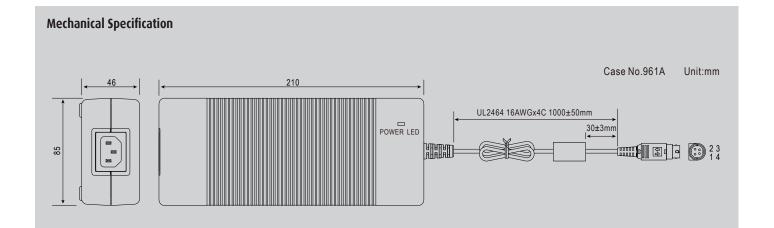
5. Line regulation is measured from low line regulation, load regulation.

6. Line regulation is measured at first cold start. Turning ON/OFF the power supply may lead to the increase of the set up time.

7. Derating maybe needed under low input voltage. Please check the derating curve for more details.

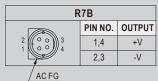
8. The power supply is considered as a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to 'EMI testing of component power supplies'.





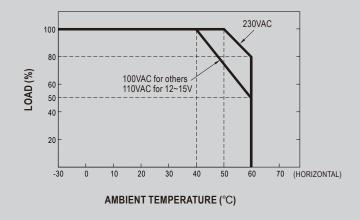
Plug Assignment

Standard plug: power DIN 4 pin with lock type, KYCON KPPX-4P equivalent



-V connected to AC FG

Derating Curve



Static Characteristics

