320W@4.85A, 320W@8.33A, 320W@7.15A, 320W@6.25A

320W@5.55A | IP67 | FC CE 🙆 🎑 🖯 💆 SELV

SANPU



Features:

Common international AC input voltage range (up to 300 VAC)

Adopt active PFC function

Protection:Short-circuit,over-current,over-voltage,

Over-Temp.

IP67 waterproof grade, suitable for indoor and

outdoor installation

Conform to World-lighting-equipment-safety

Standard

Suitable for Dry,wet,rainy Environment

5 years warranty

Specification

Model No.		SP-GLB-320-60	SP-HCL-320-36	SP-HCL-320-42	SP-HCL-320-48	SP-HCL-320-54				
	NO-load voltage (MAX)	61VDC	37VDC	43VDC	49VDC	55VDC				
	Output current (Typ)	4.85A	8.33A	7.15A	6.25A	5.55A				
	Output power (MAX)	332W	332W	332W	332W	332W				
	Ripple or Noise Re.2	800mV	800mV	800mV	800mV	800mV				
	Output voltage range	e range 38-60VDC 25-36		25-42VDC	25-48VDC	38-54VDC				
Output	Efficiency (Typ)	≥93% ≥92%		≥93%	≥93%	≥93%				
	Current error (MAX)	±2%	±2%	±2%	±2%	±2%				
	Line regulation	±2%	±2%	±2%	±2%	±2%				
	Load regulation	±2%	±2%	±2%	±2%	±2%				
	Setup,rise time	<800ms, ≤100ms (full load) 115VAC/230VAC								
	Hold up time (Typ) 10ms full load 230VAC/115VAC									
	Dimming control Mode	Series/parallel/ PWM signal control								
	Remark.									
Dimmina	Maximum dimming	0-100%, Minimum boot brightness/6%								
Diming	range in series/parallel									
	Power Maintenance	25VDC								
	Voltage Note 5	I								
	Input voltage range	100-285VAC or 130-400VDC								
	frequency range	47-63HZ								
	PFC (Typ)	PF≥0.98 230VAC Full load								
Input	THD (Typ)	<15%(Standard for load lamp)								
	AC current (Typ)	<1.4A/115VAC, <0.9A/230VAC, <0.5A/277VAC								
	Surge current (Typ)	Cold start<80A /230VAC								
	Leakage current	<0.75MA/300VAC								
	Over-current	100%								
Protection	Short-circuit	Protection mode: hiccup, short circuit can be recovered after removal								
	Over-load	Maximum operating voltage limit.								
Environment	Working Temperature	-40+60°C								

GROW		320W@4.85A, 320W@8.33A, 320W@7.15A, 320W@6.25A 320W@5.55A IP67 F€CE ▲ @ © SELV						
	Working Humidity	20-95%RH, No condensation						
	Storage temperature,	-40-+80℃, 20-95%RH						
	humidity							
	MAX. temperature rise	+40°C Airless open environment, shell MAX. temperature point						
	Vibration	10-500HZ,5G 12 Min./1cycle, period for 72min. each along X, Y, Z axes						
	Safety Code Note 4	EN 61347-1: 2008+A1: 2011+A2: 2013, EN 61347-2-13: 2006, EN 62493: 2010						
	Isolation resistance	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1KVAC I/P-DIM:3.75KVAC						
Safety and		O/P-DIM:1.5KVAC						
standards	Withstand voltage	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25°C/70%RH						
	EMC emission	EN55015, EN55022(CISPR22),Class B,EN61000-3-2 : 2006+AA:2009						
	EMC immunity	EN55024-A, EN61000-3-3: 2013						
Lightning	L/N-FG	L/N-FG,±6KV						
Surge	L-N	L-N,±4KV						
	Rubber cable	Input 3*0.75 ²						
cable	Rubber cable	Output 2*0.75 ²						
	Series/parallel Control	4/6 core 0.42 telephone line, RJ45 must be used 6P6 Core Crystal Head						
	Line							
case	Full Aluminum case	Silica filling						
	MTBF	≥150Khrs MIL-HDBK-217F(25℃)						
Others	MTBF Main body size	≥150Khrs MIL-HDBK-217F(25℃) L250*W80*H43mm						
Others	MTBF Main body size Net weight	≥150Khrs MIL-HDBK-217F(25°C) L250*W80*H43mm						
Others	MTBF Main body size Net weight Packing size with Box	≥150Khrs MIL-HDBK-217F(25℃) L250*W80*H43mm L260*W84*H45						
Others	MTBF Main body size Net weight Packing size with Box 1. if not specified, all specified	≥150Khrs MIL-HDBK-217F(25°C) L250*W80*H43mm L260*W84*H45 fications are measured at ambient temperature VAC.25°C230.						
Others	MTBF Main body size Net weight Packing size with Box 1. if not specified, all specified. 2. ripple and noise measure	≥150Khrs MIL-HDBK-217F(25°C) L250*W80*H43mm L260*W84*H45 fications are measured at ambient temperature VAC.25°C230. ement method: a 0.52mm twisted pair wire is used, and the terminal should						
Others	MTBF Main body size Net weight Packing size with Box 1. if not specified, all specified 2. ripple and noise measure parallel the capacitance of	≥150Khrs MIL-HDBK-217F(25°C) L250*W80*H43mm L260*W84*H45 fications are measured at ambient temperature VAC.25°C230. ement method: a 0.52mm twisted pair wire is used, and the terminal should of 0.1uf and 47uf bandwidth measurement.						
Others	MTBF Main body size Net weight Packing size with Box 1. if not specified, all specified, all specified, all specified, all specified, all specified and noise measure parallel the capacitance of 3. the start-up time is measured	≥150Khrs MIL-HDBK-217F(25°C) L250*W80*H43mm L260*W84*H45 fications are measured at ambient temperature VAC.25°C230. ement method: a 0.52mm twisted pair wire is used, and the terminal should of 0.1uf and 47uf bandwidth measurement. ured under the start-up of the cold machine, frequent switching machines may						
Others	MTBF Main body size Net weight Packing size with Box 1. if not specified, all specified 2. ripple and noise measure parallel the capacitance of 3. the start-up time is meas change the start-up time.	≥150Khrs MIL-HDBK-217F(25°C) L250*W80*H43mm L260*W84*H45 Tications are measured at ambient temperature VAC.25°C230. ement method: a 0.52mm twisted pair wire is used, and the terminal should of 0.1uf and 47uf bandwidth measurement. ured under the start-up of the cold machine, frequent switching machines may						
Others	MTBF Main body size Net weight Packing size with Box 1. if not specified, all specified, all specified, all specified, all specified, all specified, all specified and noise measure parallel the capacitance of 3. the start-up time is meas change the start-up time. 4. the slow dimming of the	≥150Khrs MIL-HDBK-217F(25°C) L250*W80*H43mm L260*W84*H45 fications are measured at ambient temperature VAC.25°C230. ement method: a 0.52mm twisted pair wire is used, and the terminal should of 0.1uf and 47uf bandwidth measurement. ured under the start-up of the cold machine, frequent switching machines may lamp after dimming is turned off is a normal phenomenon, because the output						
Others	MTBF Main body size Net weight Packing size with Box 1. if not specified, all specified, all specified, all specified, all specified and noise measure parallel the capacitance of a start-up time is meas change the start-up time is meas change the start-up time. 4. the slow dimming of the filter electrolytic capacitar	≥150Khrs MIL-HDBK-217F(25°C) L250*W80*H43mm L260*W84*H45 fications are measured at ambient temperature VAC.25°C230. ement method: a 0.52mm twisted pair wire is used, and the terminal should of 0.1uf and 47uf bandwidth measurement. ured under the start-up of the cold machine, frequent switching machines may lamp after dimming is turned off is a normal phenomenon, because the output nce capacity is large, and the discharge capacity of dimming to the minimum						
Others	MTBF Main body size Net weight Packing size with Box 1. if not specified, all specified, all specified, all specified, all specified, all specified, all specified and noise measure parallel the capacitance of 3. the start-up time is meas change the start-up time is meas change the start-up time. 4. the slow dimming of the filter electrolytic capacitar power is weaker than that	≥150Khrs MIL-HDBK-217F(25°C) L250*W80*H43mm L260*W84*H45 fications are measured at ambient temperature VAC.25°C230. ement method: a 0.52mm twisted pair wire is used, and the terminal should of 0.1uf and 47uf bandwidth measurement. ured under the start-up of the cold machine, frequent switching machines may lamp after dimming is turned off is a normal phenomenon, because the output nce capacity is large, and the discharge capacity of dimming to the minimum of the maximum power. Therefore, the power in electrolytic capacitance can						
Others	MTBF Main body size Net weight Packing size with Box 1. if not specified, all specified, all specified, all specified, all specified, all specified and noise measure parallel the capacitance of a start-up time is measing the start-up time is measing the start-up time. 4. the slow dimming of the filter electrolytic capacitar power is weaker than that be maintained for a long the start-up time is the start-up time is the start-up time is measing the start-up time.	≥150Khrs MIL-HDBK-217F(25℃) L250*W80*H43mm L260*W84*H45 fications are measured at ambient temperature VAC.25℃230. ement method: a 0.52mm twisted pair wire is used, and the terminal should of 0.1uf and 47uf bandwidth measurement. ured under the start-up of the cold machine, frequent switching machines may lamp after dimming is turned off is a normal phenomenon, because the output nce capacity is large, and the discharge capacity of dimming to the minimum of the maximum power. Therefore, the power in electrolytic capacitance can ime, making the dimming time relatively slow.						
Others	MTBF Main body size Net weight Packing size with Box 1. if not specified, all specified, all specified, all specified, all specified, all specified, all specified and noise measure parallel the capacitance of 3. the start-up time is meas change the start-up time is meas change the start-up time. 4. the slow dimming of the filter electrolytic capacitan power is weaker than that be maintained for a long to 5. the power supply throug	≥150Khrs MIL-HDBK-217F(25°C) L250*W80*H43mm L260*W84*H45 fications are measured at ambient temperature VAC.25°C230. ement method: a 0.52mm twisted pair wire is used, and the terminal should of 0.1 uf and 47 uf bandwidth measurement. ured under the start-up of the cold machine, frequent switching machines may lamp after dimming is turned off is a normal phenomenon, because the output nce capacity is large, and the discharge capacity of dimming to the minimum of the maximum power. Therefore, the power in electrolytic capacitance can time, making the dimming time relatively slow. In dimming control off the no-load voltage, that is, the final load voltage of the						
Others	MTBF Main body size Net weight Packing size with Box 1. if not specified, all specified, all specified, all specified, all specified, all specified and noise measure parallel the capacitance of a specific terms of the start-up time is measing the start-up time. 4. the slow dimming of the filter electrolytic capacitar power is weaker than that be maintained for a long to 5. the power supply throug lamp is lower than the hold	>150Khrs MIL-HDBK-217F(25°C) L250*W80*H43mm L260*W84*H45 fications are measured at ambient temperature VAC.25°C230. ement method: a 0.52mm twisted pair wire is used, and the terminal should of 0.1uf and 47uf bandwidth measurement. ured under the start-up of the cold machine, frequent switching machines may lamp after dimming is turned off is a normal phenomenon, because the output nee capacity is large, and the discharge capacity of dimming to the minimum of the maximum power. Therefore, the power in electrolytic capacitance can time, making the dimming time relatively slow. h dimming control off the no-load voltage, that is, the final load voltage of the ding voltage, the lamp will have a weak brightness						
Others	MTBF Main body size Net weight Packing size with Box 1. if not specified, all specified and sp	Elsokhrs MIL-HDBK-217F(25°C) L250*W80*H43mm L260*W84*H45 Elsother measured at ambient temperature VAC.25°C230. Ement method: a 0.52mm twisted pair wire is used, and the terminal should of 0.1uf and 47uf bandwidth measurement. Ured under the start-up of the cold machine, frequent switching machines may Iamp after dimming is turned off is a normal phenomenon, because the output face capacity is large, and the discharge capacity of dimming to the minimum of the maximum power. Therefore, the power in electrolytic capacitance can time, making the dimming time relatively slow. In dimming control off the no-load voltage, that is, the final load voltage of the ding voltage, the lamp will have a weak brightness -13,IEC/EN60968-1.2004A1: 2006 6. Safety Design						
Others	MTBF Main body size Net weight Packing size with Box 1. if not specified, all specified, all specified, all specified, all specified, all specified, all specified and spe	Elsokhrs MIL-HDBK-217F(25°C) L250*W80*H43mm L260*W84*H45 fications are measured at ambient temperature VAC.25°C230. ement method: a 0.52mm twisted pair wire is used, and the terminal should of 0.1uf and 47uf bandwidth measurement. ured under the start-up of the cold machine, frequent switching machines may lamp after dimming is turned off is a normal phenomenon, because the output are capacity is large, and the discharge capacity of dimming to the minimum of the maximum power. Therefore, the power in electrolytic capacitance can time, making the dimming time relatively slow. Ind dimming control off the no-load voltage, that is, the final load voltage of the ding voltage, the lamp will have a weak brightness -13,IEC/EN60968-1.2004A1 : 2006 6. Safety Design						
Others	MTBF Main body size Net weight Packing size with Box 1. if not specified, all specified, all specified, all specified, all specified, all specified, all specified and noise measure parallel the capacitance of a specific	≥150Khrs MIL-HDBK-217F(25°C) L250*W80*H43mm L260*W84*H45 tications are measured at ambient temperature VAC.25°C230. ement method: a 0.52mm twisted pair wire is used, and the terminal should of 0.1uf and 47uf bandwidth measurement. ured under the start-up of the cold machine, frequent switching machines may lamp after dimming is turned off is a normal phenomenon, because the output free capacity is large, and the discharge capacity of dimming to the minimum of the maximum power. Therefore, the power in electrolytic capacitance can time, making the dimming time relatively slow. In dimming control off the no-load voltage, that is, the final load voltage of the ting voltage, the lamp will have a weak brightness -13,IEC/EN60968-1.2004A1: 2006 6. Safety Design d as a combination of components and terminal equipment. Because the EMC is rice, the terminal equipment manufacturer needs to confirm the whole device						



■Structure size

Main Body size: L250*W80*H43mm



Block diagram



Dimming function (optional)

% The output current can be adjusted by potentiometer with DIM+, DIM-connected 1~10Vdc, 10V PWM signal, and maximum resistance of 100K.

% When using the potentiometer to control the dimming, only one product can be controlled. If you need to control multiple products, you need to change the maximum value of the potentiometer. The resistance change calculation formula is: 100K/parallel control product = demand resistance The use of potentiometer to control multiple products is also affected by other conditions, and the actual experience is poor, so it is not recommended to use potentiometer to control multiple products.)

% When controlling 10 products with 1~10Vdc, 10V PWM signal, ensure that the controller output current is ≥3mA % After the product is powered on, the DIM+ output line cannot be short-circuited with the LED+ output line to prevent the high voltage of the LED+ output from damaging the constant current control system inside the product.

320W@4.85A, 320W@8.33A, 320W@7.15A, 320W@6.25A

320W@5.55A | IP67 | FC CE 🙆 🧟 🖯 🖉 SELV

SANPU

% Adjust the reference resistance of the output current (typical)

Resistance	10K Ω	20K Ω	30K Ω	40K Ω	50K Ω	60K Ω	70K Ω	80K Ω	90K Ω	100K Ω	OPEN
Value											
Rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%-108%
percentage											

%1-10V Dimming Function Adjusts Output Current (Typical)

Voltage	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
adjustment											
Rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%-108%
percentage											

%10V PWM Signal Adjust Output Current Value (Typical) Frequency Range: 100Hz-3KHz

Duty Ration	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Rated current	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	95%-108%
percentage											

Dimming connection block diagram of lighting device using controller to turn on/off



2. Dimming method 2: timing dimming

Timer dimming internally uses a micro controller as a timer. A dimming ratio of 5% to 100% can be achieved. This dimming method uses the power-on time as 0 o'clock. When the power supply starts the timer, it will restart at

0:00:00:00. Once the power is turned off or the power-on time is lost, the time will start again.

The minimum current changes by 1%. The maximum current changes by 95%. The minimum time set value is 1 second, and the maximum time setting value is infinite.

For example, the output power of the customer is reduced to 70% after 3 hours of start-up, 50% after 5 hours, 35% after 6.5 hours, and then maintained. This can be achieved by this function.

Note: The start time of the dimming and the percentage of the dimming output current are set by the customer and cannot be changed once shipped.

This control mode cannot turn off the power.

There are two ways of current regulation, one is real-time, and the other is gradual, such as reducing the weight to 100% and reducing it to 50%. In real time, it only takes 1 second to reduce the current by 100% to 50%. The gradual change is a gradual decrease at a rate of 1% per second. The reduction from 100% to 50% takes 50 seconds to complete. . Customers can choose a suitable change in a more practical environment.

320W@4.85A, 320W@8.33A, 320W@7.15A, 320W@6.25A 320W@5.55A | IP67 | **FC (6** 🔊 🖉 🗇 🗵 SELV

SANP

Declaration

the picture is for reference only, products in kind prevail.
 Due to errors in the test equipment, the conversion efficiency is only for reference.
 power can not be soaked in water for a long time.

Product Usage Notes

When the device is powered, please pay attention to the correct installation of the input and output terminals.
 When the power supply is turned on for the first time, if a light flash occurs, check the DC output terminal; if it is confirmed that the load voltage of the DC output terminal is lower than the minimum operating voltage, when the load voltage is lower than the minimum operating voltage, the power supply is not in operation. In the normal work area, various abnormal conditions will occur.

3. When the power is turned on for the first time, if the load power is low, check the DC output voltage and confirm whether the DC output voltage is lower than the maximum operating voltage. If the load voltage is higher than or equal to the maximum operating voltage, When the power supply enters the constant voltage operation mode, the power supply loses the constant current function and changes to the load impedance constant current. After encountering this situation, it is necessary to replace the power supply with higher operating voltage to properly match the lamps.

Warranty instructions

1.the warranty date start date is the product date of manufacture

2. The product damage caused by using the environment beyond the nominal range of the specification is not covered by the warranty.

3. Product damage caused by incorrect installation and use is not covered by the warranty.

4. Product failure caused by long-term immersion in water is not covered by the warranty.

5.Users will not warranty after disassembling the product