

NSP500



Constant Voltage Power Supplies Converter for luminaires (LED lamps)

JH11728-25001
R-R-sP3-NSP600

--- FEATURES ---

- ☐ High Efficiency 90%
- ☐ IP68 Waterproof
- ☐ OLP, SCP, OCP
- ☐ -20 to 50°C deg operation
- ☐ EN61347-1 compliant

The constant voltage LED power supplies from Smart power can deliver up to 500W of output power in a compact package size.

The Power Supply provide a range of output voltage solutions for specific LED requirements. With its high efficiency, Power Supply make you experience the high reliability and performance to maximize efficiency of industry as a outstanding solution.

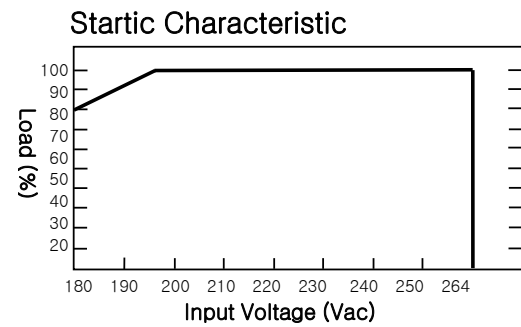
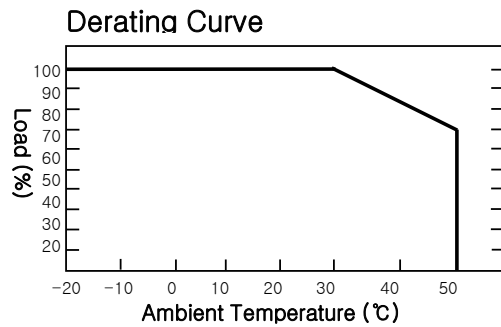
Model Number	Input Voltage	Output Voltage	Output Current	Efficiency	Remark
NSP500-12V	220Vac	12V	37.50A	90%	
NSP500-24V	220Vac	24V	20.00A	92%	

Input Specifications						
parameter	Conditions/Description	Min	Nom	Max	Units	Remark
Input Voltage Range	220Vac Input	200	220	240	Vac	
Input Frequency Range		47	60	63	Hz	
Input Current	220Vac in, 500W Input			3.7	A	
Power Factor	220Vac in, 500W Input	0.5C				
Inrush Current	at 240Vac input, 25°C Cold start			60	A	

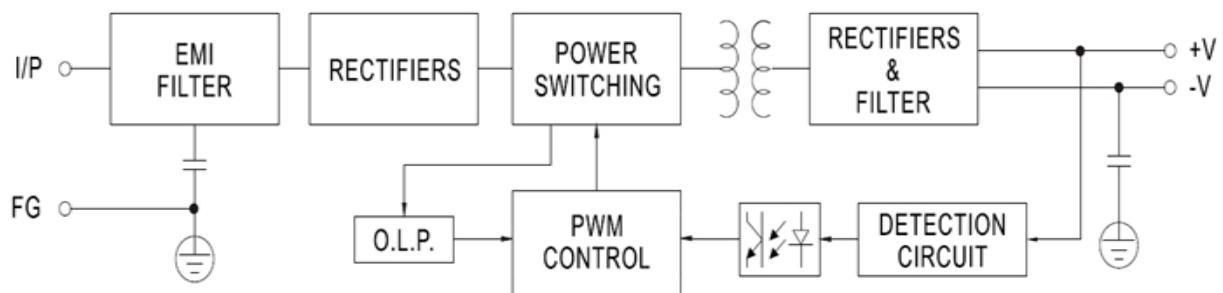
Output Specifications						
parameter	Conditions/Description	Min	Nom	Max	Units	Remark
Line Regulation				±1	%	
Load Regulation				±2	%	
Voltage Accuracy	% of Vout			±2	%	
Ripple and Noise	20MHz Bandwidth			240	mV	
Turn-on Delay	Measured at 220VAC and full load			2	S	
Short Circuit Protection	Auto Recovery					

General Specifications						
parameter	Conditions/Description	Min	Nom	Max	Units	Remark
Isolation Voltage	Input to Chassis	1500			Vac	
Efficiency	See individual models	88		92	%	
No load Power Dissipation	Measured at 190VAC and 220VAC			1.5	W	
Lifetime	Load 80% at 25°C		30000		Hours	
Weight			±1160		g	
Operating Temperature		-20		+50	°C	
Storage Temperature		-40		+90	°C	
Relative Humidity	Non-condensing (operating)	10		90	%RH	
Power Derating	At 200VAC, derates linearly from 100% at 25°C to 70% at 50°C					
	At 240VAC, derates linearly from 100% at 25°C to 70% at 50°C					

load Characteristic Curve



Block Diagram



Case size

