odel List

"*" Means Additional Function

"*"	DALI (suffix:D)	AUX 12V (suffix:H	Dimming off 0-10V/PWM/Resistor	1-10V/PWM /Resistor (suffix:B)	Remark
No Suffix					
BH		✓	✓		
BHC		✓	✓		Dual-live-wire AC off without afterglow

Input Characteristics:

Parameter	Min.	Typ.	Max.	Remark
Rated AC Input Range	100Vac		277Vac	Ref. derating curve
AC Input Range	90Vac		305Vac	Ref. derating curve
Input Frequency Range	47Hz	50/60Hz	63Hz	
Max Input Current			6.2A	100Vac
Max Input Power			620W	100Vac
Max Inrush Current(120Vac)			20A	Cold start
Max Inrush Current(220Vac)			25A	Cold start
Max Inrush Current(2777Vac)			30A	Cold start
Standby Power			0.5W	220Vac/50Hz, Dim-off, BH Model
Power Factor	0.95	0.98		220Vac/50Hz, Full load
	0.90			100-277Vac, 70-100% load
THD		6%	8%	220Vac/50Hz, Full load, Ta=25℃
			15%	100-277Vac, 70-100% load, Ta=25℃

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SS-500N[illegible]ies LED D[illegible]

O/P Cha[illegible]cs

O/P Voltage [illegible]		
Rated O/P V[illegible]ag		
Rated O/P Cur[illegible]		1.38
		0.3
No Load Voltage		
Efficiency @220V		
Efficiency @277V		
O/P Current Tolerance		
O/P Current Ripple(PK-A[illegible]		
Start-up Current Overs[illegible]		
Start-up Time		
Line Regulation		
Load Regulation		
Temperature C[illegible]		
OTP		
Short Ci[illegible]		

SS-500NP-360XX Series LED Driver

Other Characteristics:

0-10V Dimming (Optional)	Dim Vmax	0V		12V	
	Dim Range	10%Ioset		100%Ioset	
	Rec.Dim Range	0V		10V	
PWM Dimming (Optional)	PWM High	9.8V		10.2V	
	PWM Low	0V		0.3V	
	Frequency	1KHz		2KHz	
	PWM Duty	0%		100%	
Dim to Off	Dim-off				
	Dim-on				

MTBF	200,000 hours	220Vac,Full load, Ta=25℃ (MIL-HDBK-217F)
IP Grade	IP67	
Tc	90℃	
Warranty	5 years	
Net Weight	1660g	
Dimension	252mm*89.5mm*44.5mm	

Environmental Requirements

Parameter	Min.	Typ.	Max.	Remark
Operating Temperature(Tcase)	-40℃	25℃	+90℃	
Storage Temperature	-40℃	25℃	+90℃	
Operation Humidity	10%RH		90%RH	
Storage Humidity	5%RH		95%RH	
Altitude	-65m		4000m	

Safety and EMI/EMS Standards

Certification	Standard	Status	Remark
UL/cUL	UL8750	✓	
ENEC	EN 61347-1:2015 EN 61347-2-13:2014 EN 61347-2-13:2014/A1:2017	✓	
RCM	AS/NZS61347.2.13		
CCC	GB 19510.14-2009		
CE	EN 61347-2-13:2014 EN61347-1:2008+A1:2011+A2:2013	✓	

EMI/EMS	Criterion	Remark
Conduction Emission	EN IEC 55015:2019+A11:2020	Class B
Radiation Emission	EN IEC 55015:2019+A11:2020	Class B
Harmonic Current Emissions	IEC/EN 61000-3-2:2019+A1:2021	Class C
Surge	IEC/EN61000-4-5	DM: 6kV,CM: 6kV,Criterion B
	ANSI/C82.77-5-2017	DM: 6kV,CM: 6kV,Criterion B
Ring Wave	IEC/EN 61000-4-12;ANSI/C82.77-5-2017	DM: 6kV,CM: 6kV,Criterion B

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SS-500NP-360XX Series LED Driver

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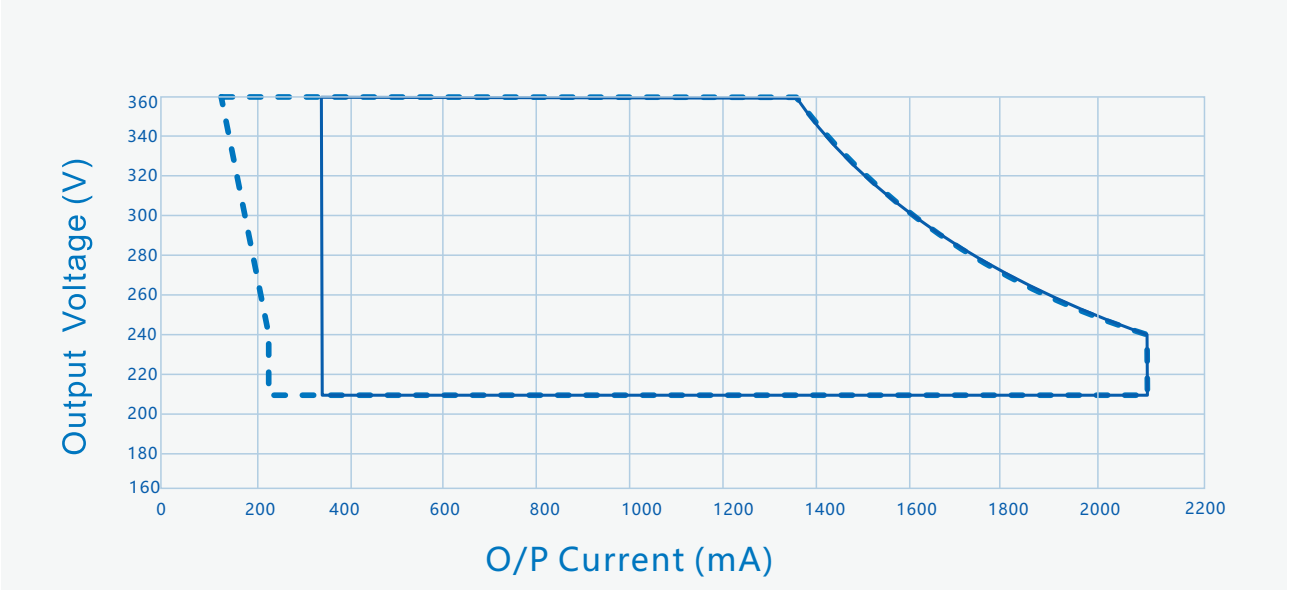
Performance Curves:

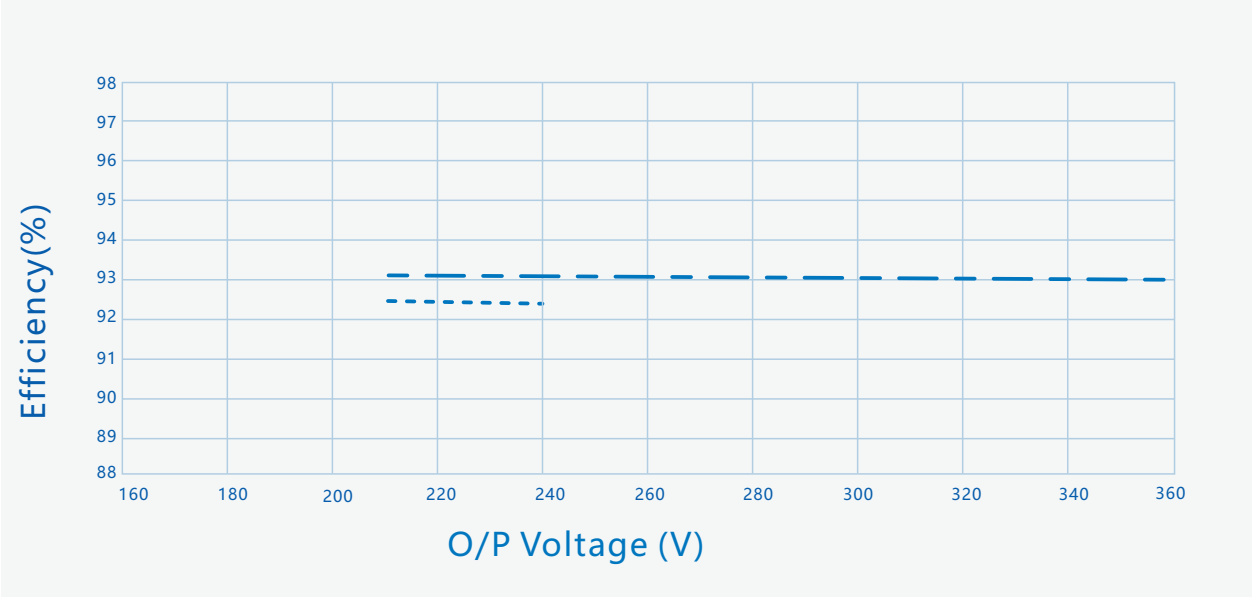
O/P Voltage Vs. O/P Current(Dim/AOC Window)



- - DIM Window

—— AOC Window

Efficiency Vs. O/P Voltage (Vin=120Vac)



------- Io=2080mA

— — — Io=1380mA

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SS-500NP-36 Series LED Driver

Performance Curves:

Power Factor Vs. O/P Power

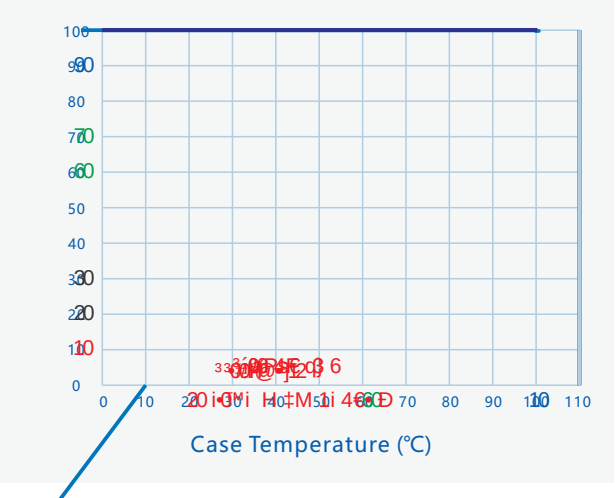
THD Vs. O/P Power

SS-500NP-360XX Series LED Driver

Performance Curves:

O/P Power Vs. Input Voltage

O/P Power Vs. Case Temperature



O/P Power Vs. Dimming

Lifetime Vs. Case Temperature

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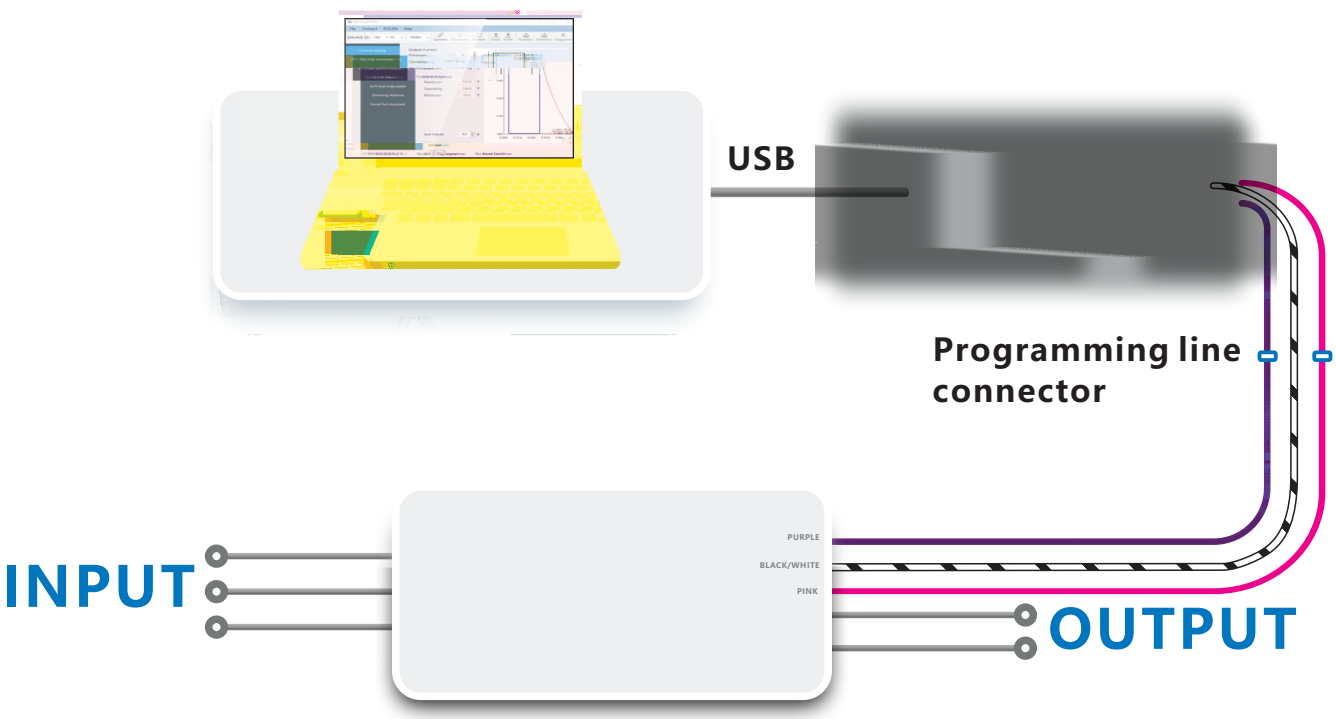
Programming connection diagram:

Legacy Timer: Driver's O/P follows the pre-programmed timing curve after turn-on.
Auto-Adjust by Percentage: Driver's O/P will be adjusted by automatically changed dimming curve by the period percentage based on the latest 5 dimming curve.
Auto-Adjust by Mid-point: Driver's O/P will be adjusted by automatically changed dimming curve by mid-point based on the latest 5 dimming curve.



Note:
Programming could be completed by off-line mode either without turn on the driver or without PC, other than the traditional on-line mode.

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SS-500NP-360XX Series LED Driver

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D Driver

Revision History

Version	Description of Update	Updated Date	Remark
V00	Original Release	2023/03/16	
V01	Update Assembly Tips	2024-09-23	

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