

SOSEN LED Driver, Your Smart Choice

Specifications

SS-600VP Series LED Driver

Model: SS-600VP-XX

Description: 600W LED Driver

Rev.: V09

Release Date: 2023-02-01

SS-600VP Series LED Driver

SOSEN
LED DRIVER



LED DRIVER

VP Series



Features:

- Efficiency up to 96%
- Dimming: DALI-2, 0-10V, PWM, Resistor, Timing
- Dim-to-Off
- Surge Protection: CM: 10kV, DM: 6kV
- AUX Power : 12V/0.3A
- Constant Lumen, Life Warning
- Optional Standby(STB) Function
- External NTC to Protect LED Module
- Standby Power < 0.5W
- IP67
- Communication Function With PC
- Type HL, suitable for hazardous locations
- Protections: SCP/OTP/OVP
- Warranty: 8 years



DALI-2 CE IP67 Class P

Description:

SS-600VP series are 600W constant current LED Driver with wide O/P voltage range and adjustable O/P current by program. LED luminaries manufactures can easily design luminaries and reduce cost.

Application:

High bay lighting, Stadium lighting, Square lighting, Plant lighting, Fish lighting

Model List:

Model	AC Input Range	Max. Pout	Vout Range	Full Power Working Voltage	Iout	Iout (DALI-2)	THD (Typ.)	PF (Typ.)	Eff. (Typ.)	Max.Tc
SS-600VP-24*	90-305Vac	600W	16-28V	24-28V	2.5-25.0A	13.88-25.0A	10%	0.95	91%	90°C
SS-600VP-42*	90-305Vac	600W	20-42V	36-42V	1.67-16.7A	9.27-16.7A	10%	0.95	93%	90°C
SS-600VP-56*	90-305Vac	600W	22-56V	48-56V	1.25-12.5A	6.94-12.5A	10%	0.95	95%	90°C
SS-600VP-190*	90-305Vac	600W	95-190V	143-190V	0.7-4.2A	2.33-4.2A	10%	0.95	95%	90°C
SS-600VP-286*	90-305Vac	600W	143-286V	215-286V	0.35-2.8A	1.55-2.8A	10%	0.95	95%	90°C
SS-600VP-428*	90-305Vac	600W	214-428V	343-428V	0.35-1.75A	0.97-1.75A	10%	0.95	95%	90°C

Note: Default Tested: at 220Vac, full load, Ta 25°C.

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SS-600VP Series LED Driver

“*” Means Additional Function

“*”	DALI (suffix:D)	AUX 12V (suffix:H)	NTC (suffix:N)	Timing	0-10V/PWM Dim /Resistor (suffix:B)	Remark
BH		✓		✓	✓	
BHN		✓	✓	✓	✓	
DH	✓	✓				
DHN	✓	✓	✓			

Input Characteristics:

Parameter	Min.	Typ.	Max.	Remark
Rated AC Input Range	100Vac		277Vac	
AC Input Range	90 Vac		305Vac	
Input Frequency Range	47Hz	50/60Hz	63Hz	
Max Input Current			7A	100Vac, full load
Max Input Power			700W	100Vac, full load
Max Inrush Current(120Vac)			38A	Cold Start
Max Inrush Current(220Vac)			78A	Cold Start
Max Inrush Current(277Vac)			105A	Cold Start
Standby Power			0.5W	220Vac/50Hz, Dim to off or Enable STB
Power Factor	0.95	0.97		220Vac/50Hz, full load
	0.90			100-277Vac/50Hz, 70-100% load
THD		8%	10%	220Vac/50Hz, full load
			20%	100-277Vac/50Hz, 70-100% load

SS-600VP Series LED Driver

O/P Characteristics(SS-600VP-24*):

Parameter	Min.	Typ.	Max.	Remark
O/P Voltage Range	16V		28V	Power Derated @16-24V
Rated O/P Voltage	24V		28V	$P_o = V_o \cdot I_o = 600W$, full load
Rated O/P Current	21.4A		25A	25A for 24V, 21.4A for 28V
Adj. O/P Current (AOC) Range	2.5A		25A	By Programming
	13.88A		25A	For DALI-2
No Load Voltage			35V	
Efficiency @120Vac	88.0%	89.0%		O/P 28V/21.4A
Efficiency @220Vac	89.5%	91.0%		O/P 28V/21.4A
Efficiency @277Vac	90.0%	91.5%		O/P 28V/21.4A
O/P Current Tolerance	-5%		+5%	
O/P Current Ripple(PK-AV)		5%	10%	Full load
Start-up Current Overshoot			10%	Full load
Start-up Time			0.5S	120Vac, Full load
			0.5S	220Vac, Full load
			0.7S	230Vac, For DALI-2
Line Regulation	-2%		+2%	Full load
Load Regulation	-2%		+2%	
Temperature Coefficient	-0.03%/°C		+0.03%/°C	Tc: 0°C~90°C
OTP	90°C	100°C	110°C	> Tc typ., Current Derating < Tc min., Operates Recovery
Short Circuit Protection			10W	Driver will not be damaged, Hiccup mode
			0.5W	Driver will not be damaged, Shut down for DALI-2

SS-600VP Series LED Driver

O/P Characteristics(SS-600VP-42*):

Parameter	Min.	Typ.	Max.	Remark
O/P Voltage Range	20V		42V	Power Derated @20V-36V
Rated O/P Voltage	36V		42V	$P_o = V_o \cdot I_o = 600W$, full load
Rated O/P Current	14.3A		16.6A	14.3A for 42V, 16.7A for 36V
Adj. O/P Current (AOC) Range	1.67A		16.6A	By Programming
	9.27A		16.6A	For DALI-2
No Load Voltage			50V	
Efficiency @120Vac	90.0%	91.0%		O/P 42V/14.3A
Efficiency @220Vac	91.5%	93.0%		O/P 42V/14.3A
Efficiency @277Vac	92.0%	93.5%		O/P 42V/14.3A
O/P Current Tolerance	-5%		+5%	
O/P Current Ripple(PK-AV)		5%	10%	Full load
Start-up Current Overshoot			10%	Full load
Start-up Time			0.5S	120Vac, Full load
			0.5S	220Vac, Full load
			0.7S	230Vac, For DALI-2
Line Regulation	-2%		+2%	Full load
Load Regulation	-2%		+2%	
Temperature Coefficient	-0.03%/°C		+0.03%/°C	Tc: 0°C~90°C
OTP	90°C	100°C	110°C	>Tc typ., Current Derating <Tc min., Operates Recovery
Short Circuit Protection			10W	Driver will not be damaged, Hiccup mode
			0.5W	Driver will not be damaged, Shut down for DALI-2

SS-600VP Series LED Driver

O/P Characteristics(SS-600VP-56*):

Parameter	Min.	Typ.	Max.	Remark
O/P Voltage Range	22V		56V	Power Derated @22-48V
Rated O/P Voltage	48V		56V	$P_o = V_o \cdot I_o = 600W$, full load
Rated O/P Current	10.7A		12.5A	12.5A for 48V, 10.7A for 56V
Adj. O/P Current (AOC) Range	1.25A		12.5A	By Programming
	6.94A		12.5A	For DALI-2
No Load Voltage			60V	
Efficiency @120Vac	90.5%	92.0%		O/P 56V/10.7A
Efficiency @220Vac	93.5%	95.2%		O/P 56V/10.7A
Efficiency @277Vac	94.0%	95.5%		O/P 56V/10.7A
O/P Current Tolerance	-5%		+5%	
O/P Current Ripple(PK-AV)		5%	10%	Full load
Start-up Current Overshoot			10%	Full load
Start-up Time			0.5S	120Vac, Full load
			0.5S	220Vac, Full load
			0.7S	230Vac, For DALI-2
Line Regulation	-2%		+2%	Full load
Load Regulation	-2%		+2%	
Temperature Coefficient	-0.03%/°C		+0.03%/°C	Tc: 0°C~90°C
OTP	90°C	100°C	110°C	> Tc typ., Current Derating < Tc min., Operates Recovery
Short Circuit Protection			10W	Driver will not be damaged, Hiccup mode
			0.5W	Driver will not be damaged, Shut down for DALI-2

SS-600VP Series LED Driver

O/P Characteristics(SS-600VP-190*):

Parameter	Min.	Typ.	Max.	Remark
O/P Voltage Range	95V		190V	Power Derated @95V-143V
Rated O/P Voltage	143V		190V	$P_o = V_o \cdot I_o = 600W$, full load
Rated O/P Current	3.15A		4.2A	4.2A for 143V, 3.15A for 190V
Adj. O/P Current (AOC)Range	0.7A		4.2A	By Programming
	2.33A		4.2A	For DALI-2
No Load Voltage			210V	
Efficiency @120Vac	91.0%	93.0%		O/P 190V/3.15A
Efficiency @220Vac	93.0%	95.0%		O/P 190V/3.15A
Efficiency @277Vac	93.0%	95.2%		O/P 190V/3.15A
O/P Current Tolerance	-5%		+5%	
O/P Current Ripple(PK-AV)		5%	10%	Full load
Start-up Current Overshoot			10%	Full load
Start-up Time			0.5S	120Vac, Full load
			0.5S	220Vac, Full load
			0.7S	230Vac, For DALI-2
Line Regulation	-2%		+2%	Full load
Load Regulation	-2%		+2%	
Temperature Coefficient	-0.03%/°C		+0.03%/°C	Tc:0°C~90°C
OTP	90°C	100°C	110°C	>Tc typ., Current Derating <Tc min., Operates Recovery
Short Circuit Protection			10W	Driver will not be damaged, Hiccup mode
			0.5W	Driver will not be damaged, Shut down for DALI-2

SS-600VP Series LED Driver

O/P Characteristics(SS-600VP-286*):

Parameter	Min.	Typ.	Max.	Remark
O/P Voltage Range	143V		286V	Power Derated @143V-215V
Rated O/P Voltage	215V		286V	$P_o = V_o \cdot I_o = 600W$, full load
Rated O/P Current	2.1A		2.8A	2.8A for 215V, 2.1A for 286V
Adj. O/P Current (AOC) Range	0.35A		2.8A	By Programming
	1.55A		2.8A	For DALI-2
No Load Voltage			310V	
Efficiency @120Vac	91.0%	93.0%		O/P 286V/2.1A
Efficiency @220Vac	93.0%	95.0%		O/P 286V/2.1A
Efficiency @277Vac	93.0%	95.2%		O/P 286V/2.1A
O/P Current Tolerance	-5%		+5%	
O/P Current Ripple(PK-AV)		5%	10%	Full load
Start-up Current Overshoot			10%	Full load
Start-up Time			0.5S	120Vac, Full load
			0.5S	220Vac, Full load
			0.7S	230Vac, For DALI-2
Line Regulation	-2%		+2%	Full load
Load Regulation	-2%		+2%	
Temperature Coefficient	-0.03%/°C		+0.03%/°C	Tc: 0°C~90°C
OTP	90°C	100°C	110°C	>Tc typ., Current Derating <Tc min., Operates Recovery
Short Circuit Protection			10W	Driver will not be damaged, Hiccup mode
			0.5W	Driver will not be damaged, Shut down for DALI-2

SS-600VP Series LED Driver

O/P Characteristics(SS-600VP-428*):

Parameter	Min.	Typ.	Max.	Remark
O/P Voltage Range	214V		428V	Power Derated @214-343V
Rated O/P Voltage	343V		428V	$P_o = V_o \cdot I_o = 600W$, full load
Rated O/P Current	1.4A		1.75A	1.75A for 343V, 1.4A for 428V
Adj. O/P Current (AOC)Range	0.35A		1.75A	By Programming
	0.97A		1.75A	For DALI-2
No Load Voltage			450V	
Efficiency @120Vac	90.5%	92.0%		O/P 428V/1.4A
Efficiency @220Vac	93.0%	95.0%		O/P 428V/1.4A
Efficiency @277Vac	93.0%	95.3%		O/P 428V/1.4A
O/P Current Tolerance	-5%		+5%	
O/P Current Ripple(PK-AV)		5%	10%	Full load
Start-up Current Overshoot			10%	Full load
Start-up Time			0.5S	120Vac, Full load
			0.5S	220Vac, Full load
			0.7S	230Vac, For DALI-2
Line Regulation	-2%		+2%	Full load
Load Regulation	-2%		+2%	
Temperature Coefficient	-0.03%/°C		+0.03%/°C	Tc:0°C~90°C
OTP	90°C	100°C	110°C	>Tc typ., Current Derating <Tc min., Operates Recovery
Short Circuit Protection			10W	Driver will not be damaged, Hiccup mode
			0.5W	Driver will not be damaged, Shut down for DALI-2

SS-600VP Series LED Driver

Other Characteristics:

Parameter		Min.	Typ.	Max.	Remark
AUX Power	O/P Voltage	11.6V	12V	12.4V	Peak Power:6W
	O/P Current	0mA	300mA	400mA	Operate max 15min at 400mA
0-10V Dimming (Optional)	Dim Vcc	0V		12V	Negative dimming by programming
	Dim Range	10%Ioset		100%Ioset	DIM+ source current 110uA .
	Rec.Dim Range	0V		10V	Dimming prohibits reverse connection.
PWM Dimming (Optional)	PWM High	9.8V		10.2V	Negative dimming by programming
	PWM Low	0V		0.3V	DIM+ source current 110uA .
	Frequency	1KHz		2KHz	Dimming prohibits reverse connection.
	PWM Duty	0%		100%	
Resistor Dimming (Optional)	Resistance	0K		100K	Negative dimming by programming
	Dim Range	10%		100%	DIM+ source current 110uA .
Dim to Off	Dim off	7%	8%	9%	
	Dim on	8%	9%	10%	
DALI Dimming Level		1-170(10%)		254(100%)	Logarithmic dimming curve
Timing Curve(Optional)		By programming			DALI models does not support this function
DALI Dimming(Optional)		Meet DALI-2			
Constant Lumen(Optional)		By programming			DALI models does not support this function
Life Warning(Optional)		By programming			DALI models does not support this function
Life Time(Tc≤75°C)		71,000 hours			80% Load
MTBF		198,200 hours			220Vac,full load, Ta=25°C (MIL-HDBK-217F)
IP Grade		IP67			
Tc		90°C			
Warranty		8 years			Tc : 75°C
Net Weight		3750g			
Dimension		282mm*144mm*49.5mm 11.10in*5.67in*1.95in			L x W x H

NOTE: 1,All the parameters above are tested Ta 25°C and LED load, unless specified.

2. When using resistor dimming (parallel connection of dimming wires), if the number of parallels is: N, the dimming resistor should be realized 0-100% dimming range, resistance value: 91KΩ/N.

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SS-600VP Series LED Driver

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	✓	
BIS	IS15885:2012 Part 2 Sec 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	EN55015:2013+A1:2015 FCC Part 15 Subpart B; ANSI C63.4:2014	Class B
Radiation Emission	EN55015:2013+A1:2015 FCC Part 15 Subpart B; ANSI C63.4:2014	Class B
Harmonic Current Emissions	IEC/EN 61000-3-2	Class C
Surge	IEC/EN 61000-4-5	DM: 6kV,CM: 10kV,Criterion B
Ring Wave	IEC/EN 61000-4-12	DM: 6kV,CM: 6kV,Criterion B

SS-600VP Series LED Driver

Safety Test Items:

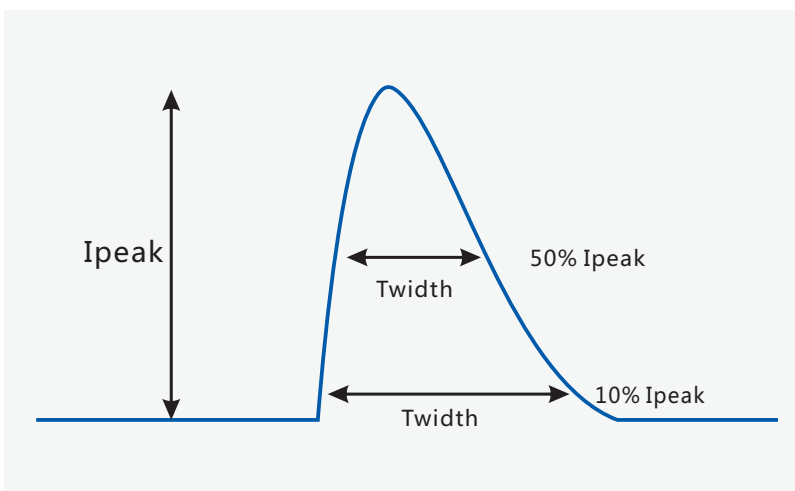
Safety Test Items	Technical Indicators			Remark
Insulation Requirements	UL Insulation Requirements	ENEC Insulation Requirements	CCC Insulation Requirements	
Input-Output	1600Vac	3000Vac	3750Vac	Reinforced insulation
Input-Case	1600Vac	1500Vac	1875Vac	Basic insulation
Input-Dim	1600Vac	3000Vac	3750Vac	Reinforced insulation
Output-Dim	1600Vac	1000Vac	1000Vac	Basic insulation
Output-Case	1600Vac	1000Vac	1000Vac	Basic insulation
Dim-Case	500Vac	500Vac	500Vac	Basic insulation
Insulation Resistance	$\geq 10M\Omega$			Input-Output, Test voltage: 500Vdc
Ground Resistance	$\leq 0.1\Omega$			25A/1min
Leakage Current	$\leq 0.75mA$			277Vac

NOTE:

1. SOSEN warrants the LED Driver itself complies with EMC standard. However, LED Driver's EMC should be re-checked when integrated into lighting systems due to unexpected interference as component.
2. Please short (ACL and ACN), (V+ and V- and NTC+ and NTC-), (Dim+ and Dim - and Vaux+ and Vaux- and STB) when Hi-pot test.
3. The CCC withstand voltage test needs to disconnect the built-in lightning protection tube. According to the IEC 60598-1:14 standard section 10.2, the "built-in lightning protection tube" can be marked on the nameplate to disconnect the discharge tube on testing.

Performance Curves:

Input Inrush Current

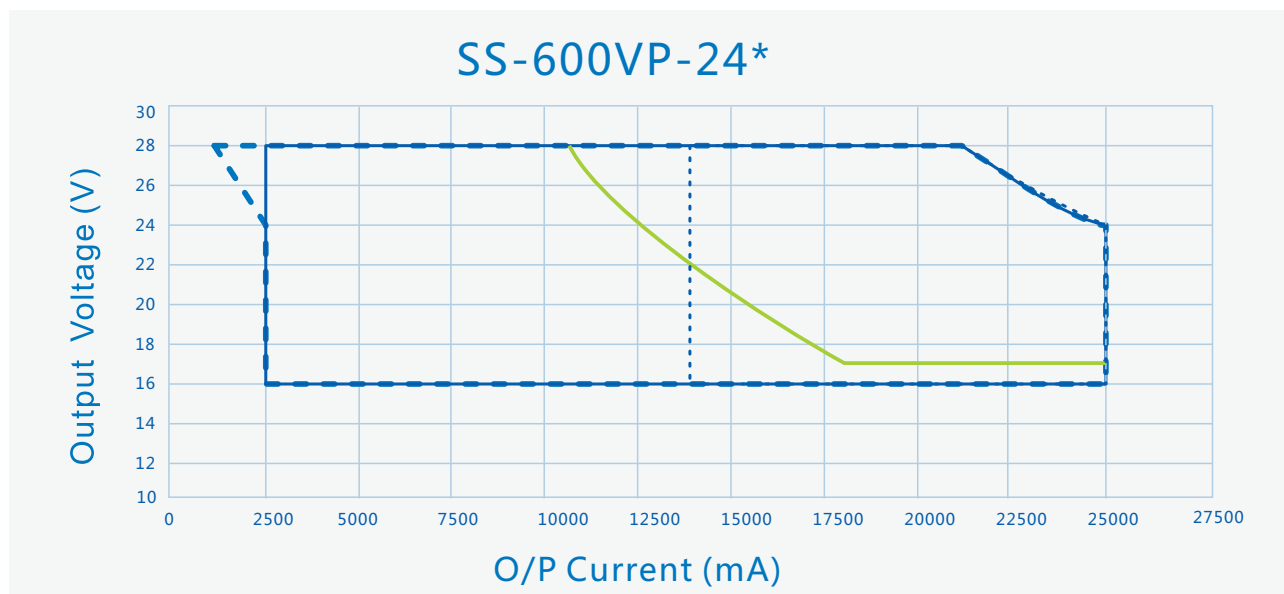


Vin	Ipeak	T(@10% of Ipeak)	T(@50% of Ipeak)
120Vac	38A	1400uS	
220Vac	78A		650uS
277Vac	105A	1200uS	

SS-600VP Series LED Driver

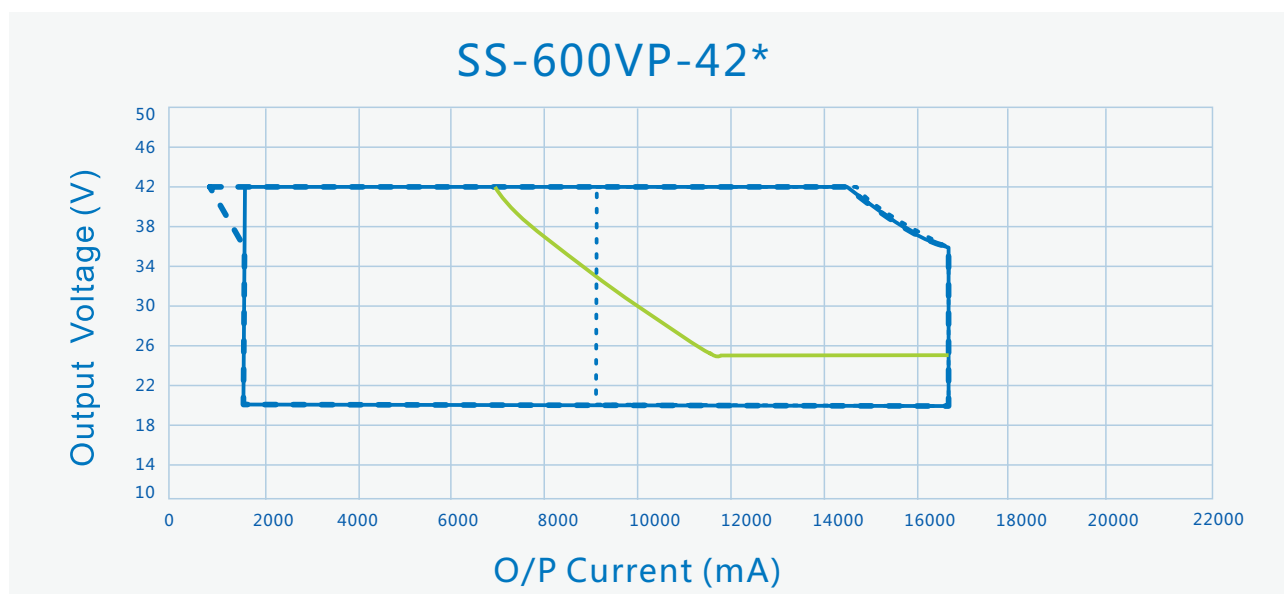
Performance Curves:

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



-- DIM Window — AOC Window — (PF>0.9,THD<20% at 277Vac) ... AOC Window For DALI-2

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

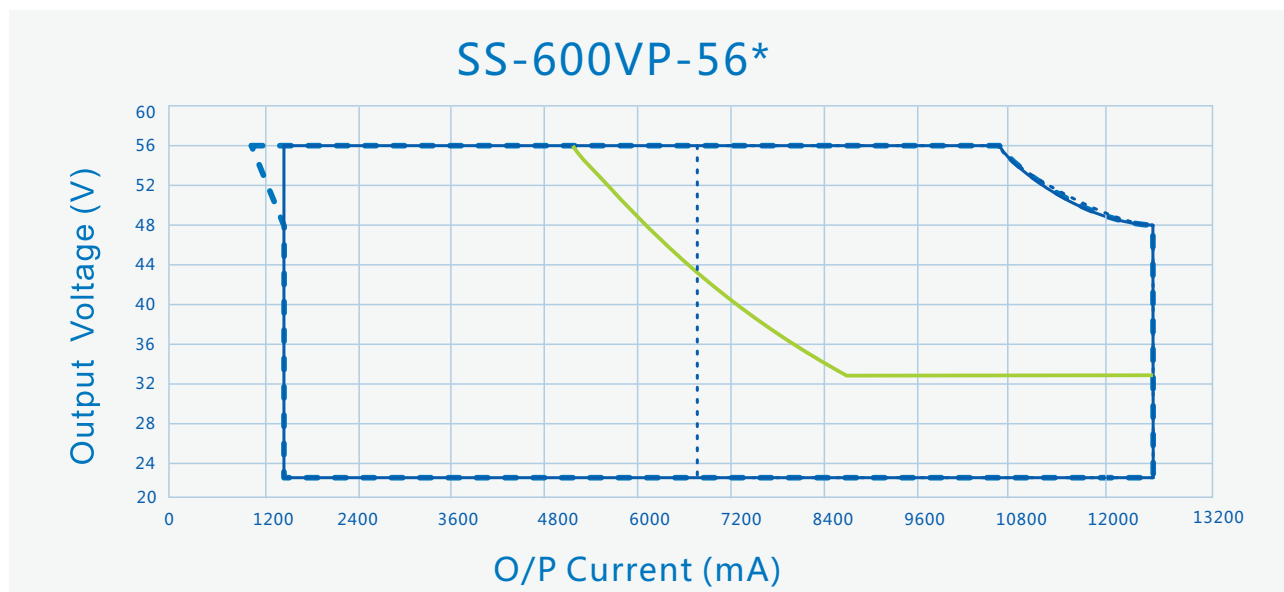


-- DIM Window — AOC Window — (PF>0.9,THD<20% at 277Vac) ... AOC Window For DALI-2

SS-600VP Series LED Driver

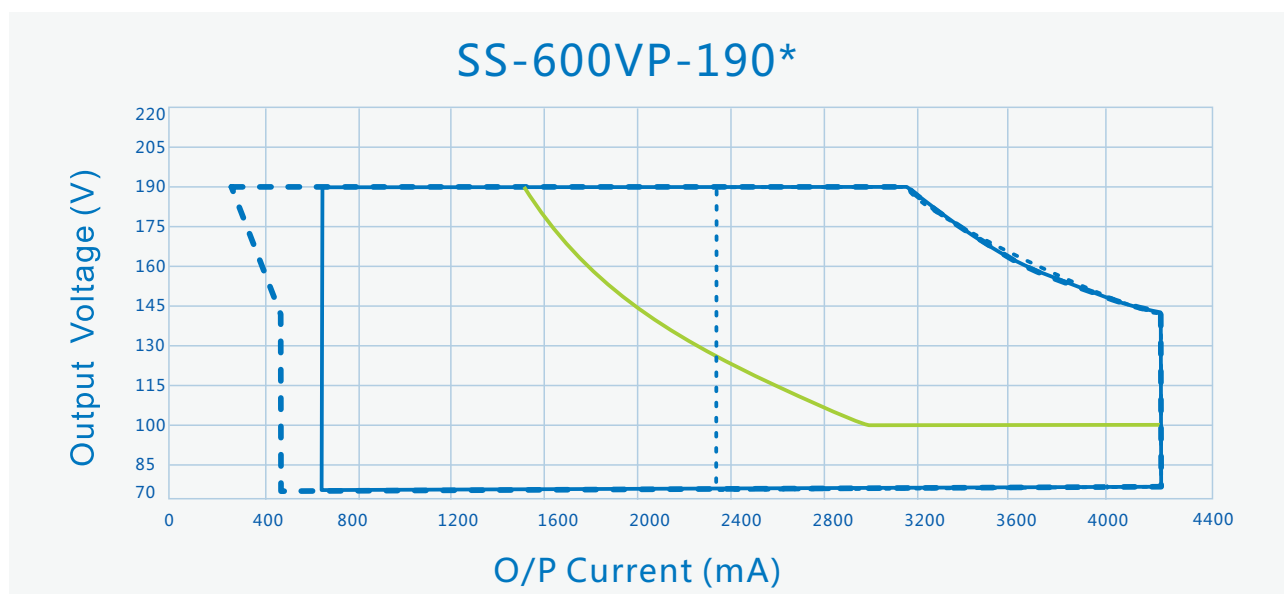
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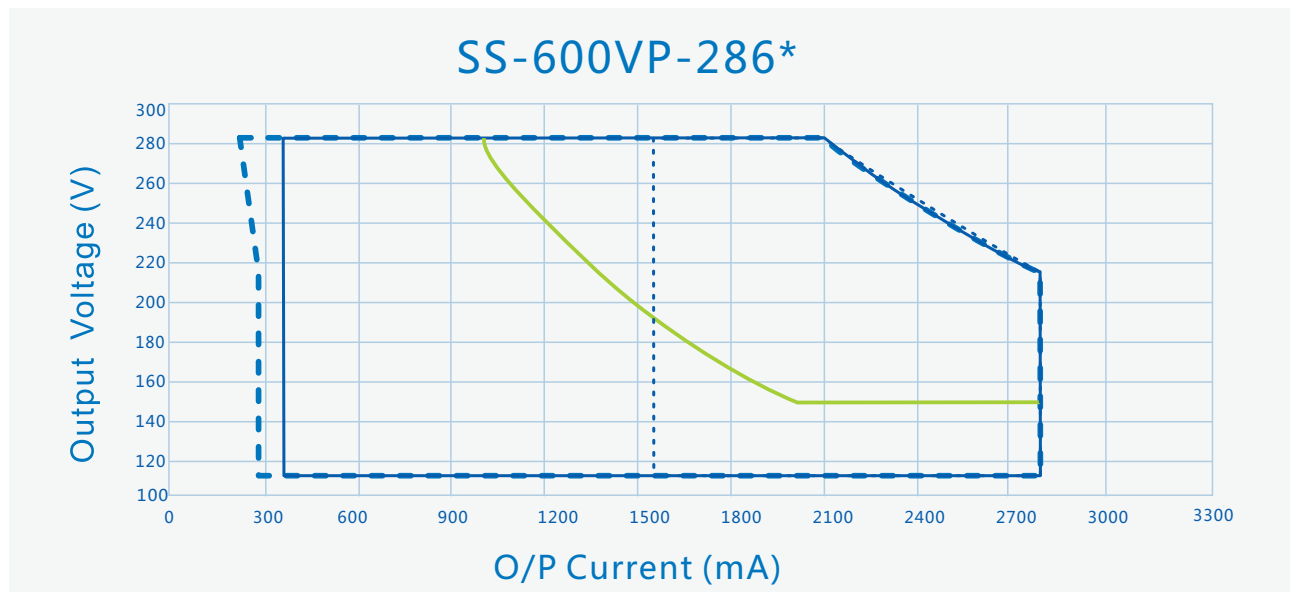


-- DIM Window — AOC Window — (PF>0.9,THD<20% at 277Vac) ... AOC Window For DALI-2

SS-600VP Series LED Driver

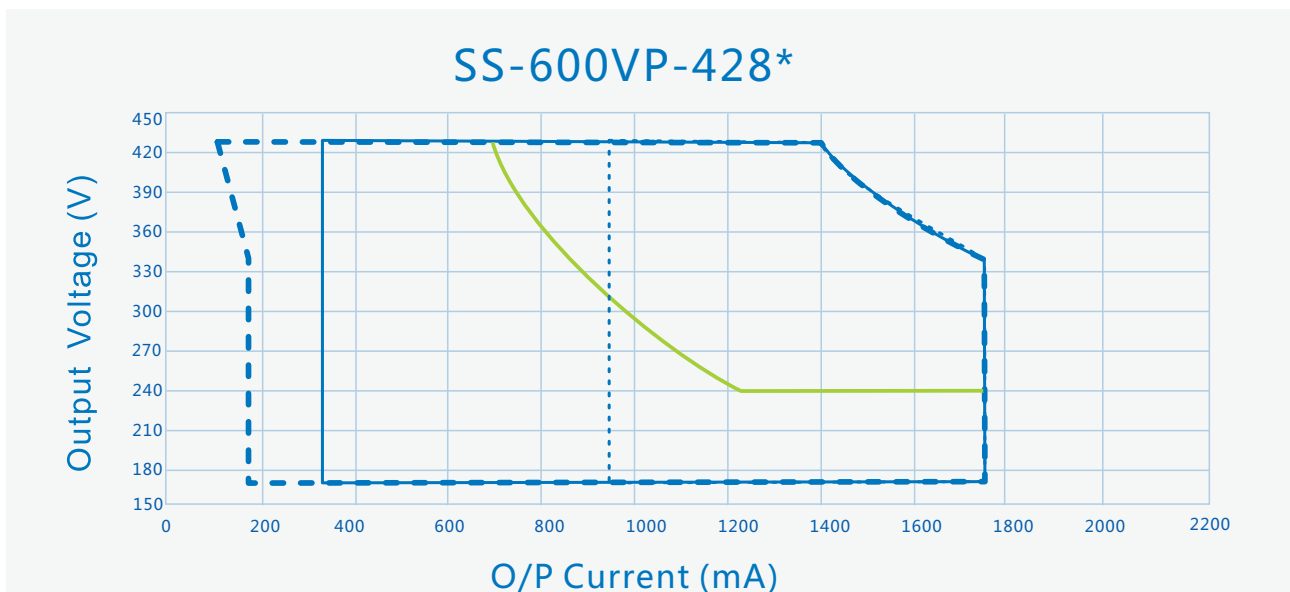
Performance Curves:

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



-- DIM Window — AOC Window — (PF > 0.9, THD < 20% at 277Vac) ... AOC Window For DALI-2

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

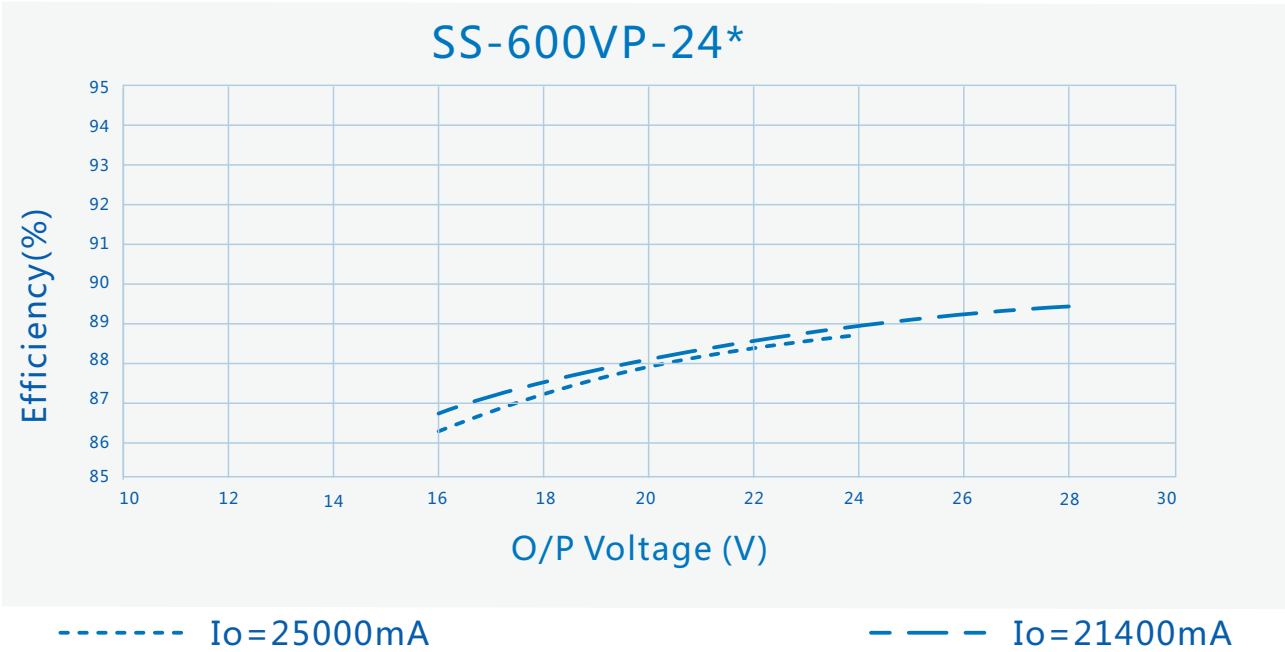


-- DIM Window — AOC Window — (PF > 0.9, THD < 20% at 277Vac) ... AOC Window For DALI-2

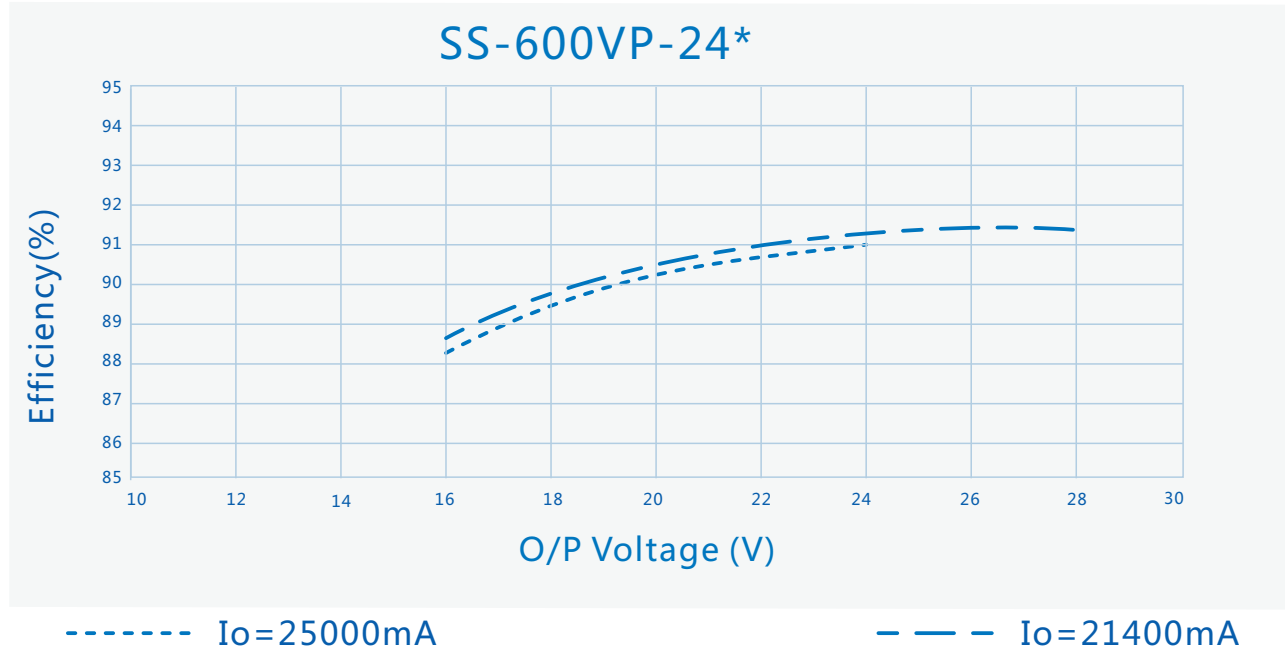
SS-600VP Series LED Driver

Performance Curves:

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



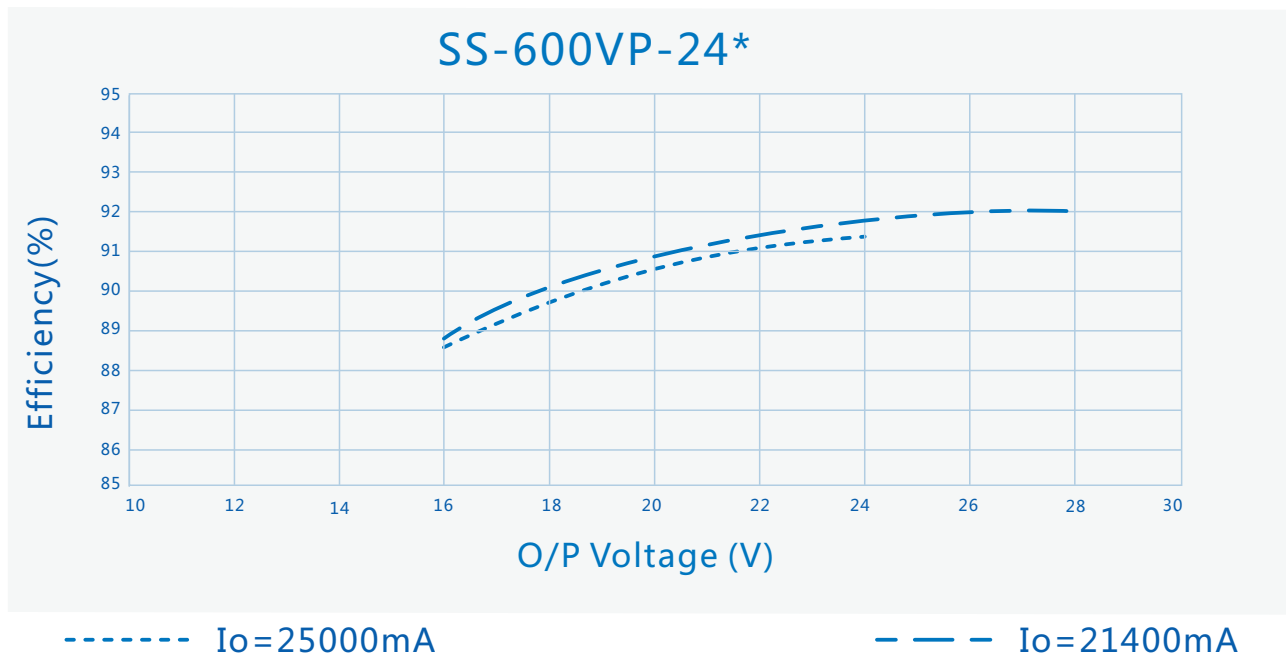
Efficiency Vs. O/P Voltage (Vin=220Vac)



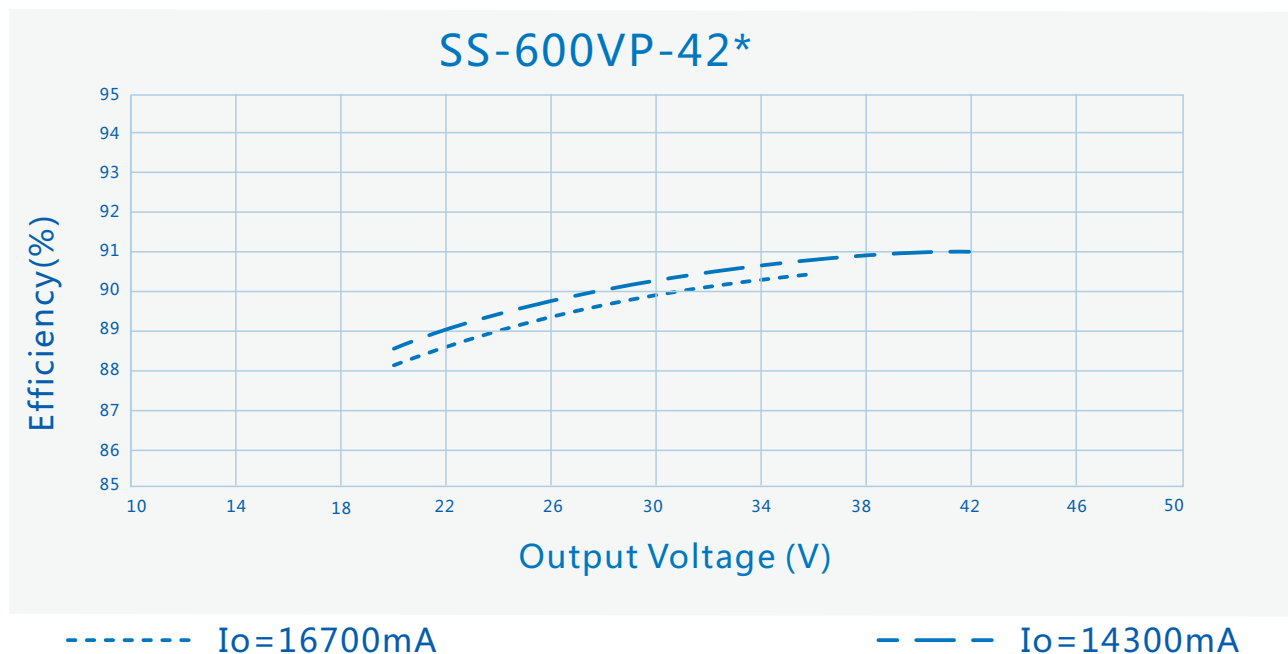
SS-600VP Series LED Driver

Performance Curves:

Efficiency Vs. O/P Voltage ($V_{in}=277V_{ac}$)



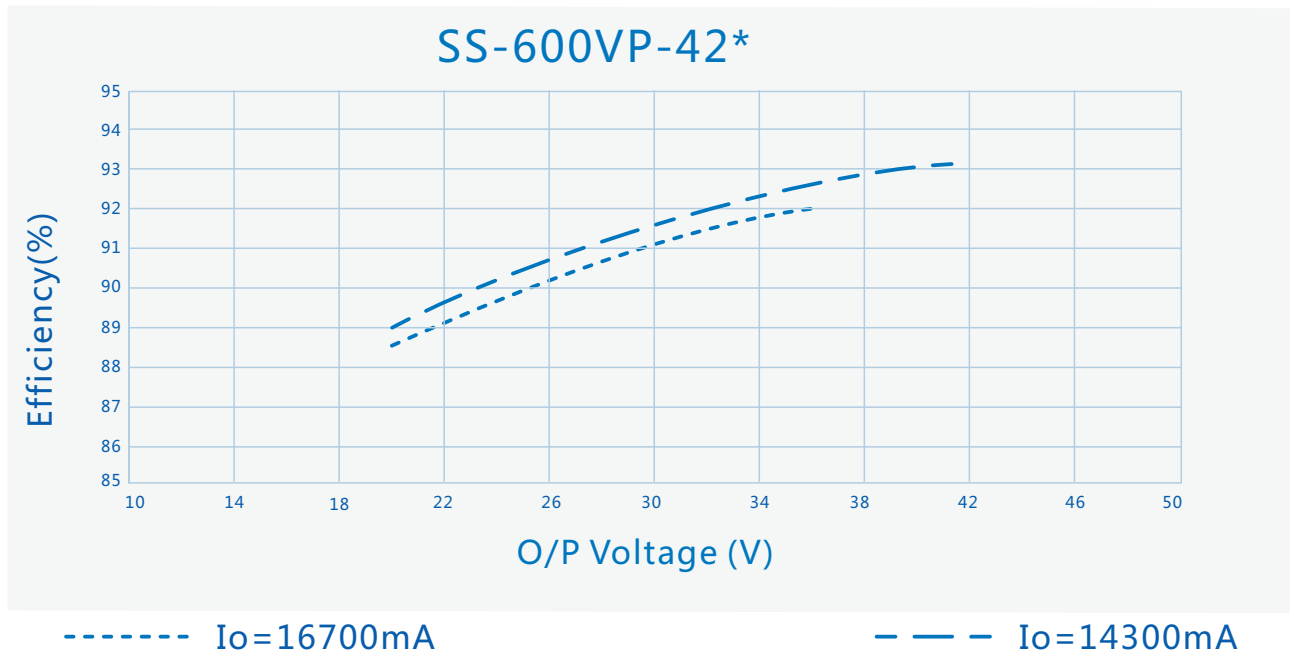
Efficiency Vs. O/P Voltage ($V_{in}=120V_{ac}$)



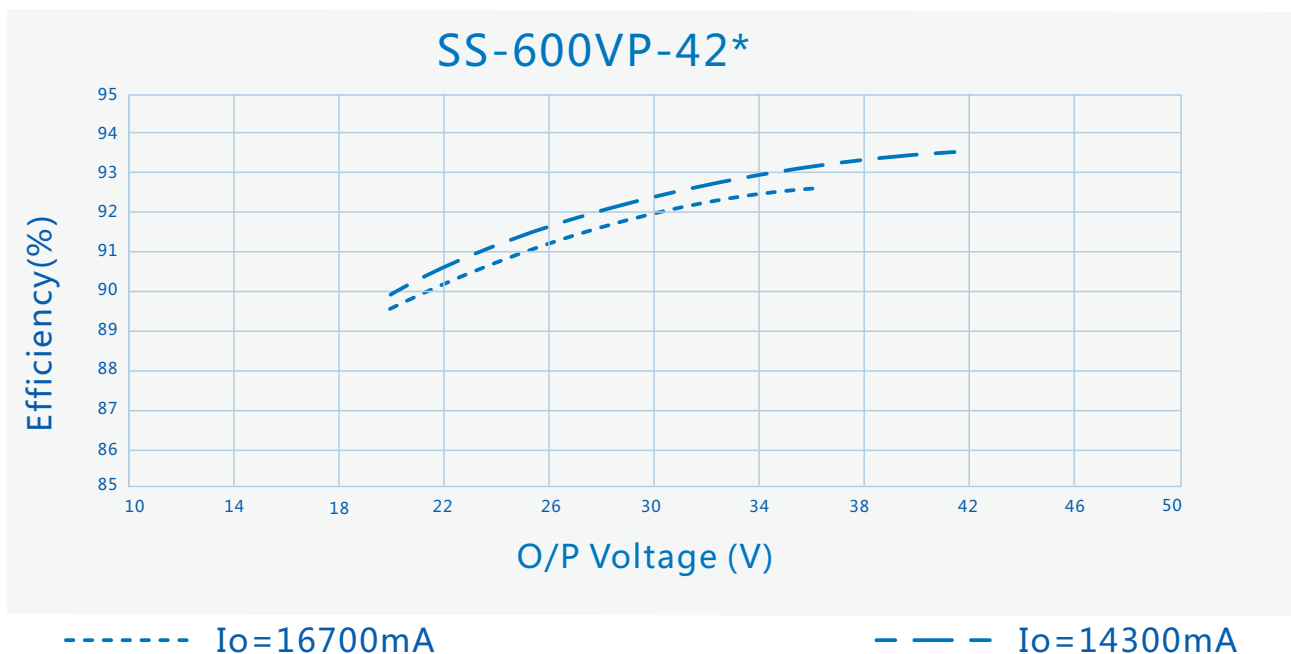
SS-600VP Series LED Driver

Performance Curves:

Efficiency Vs. O/P Voltage ($V_{in}=220V_{ac}$)



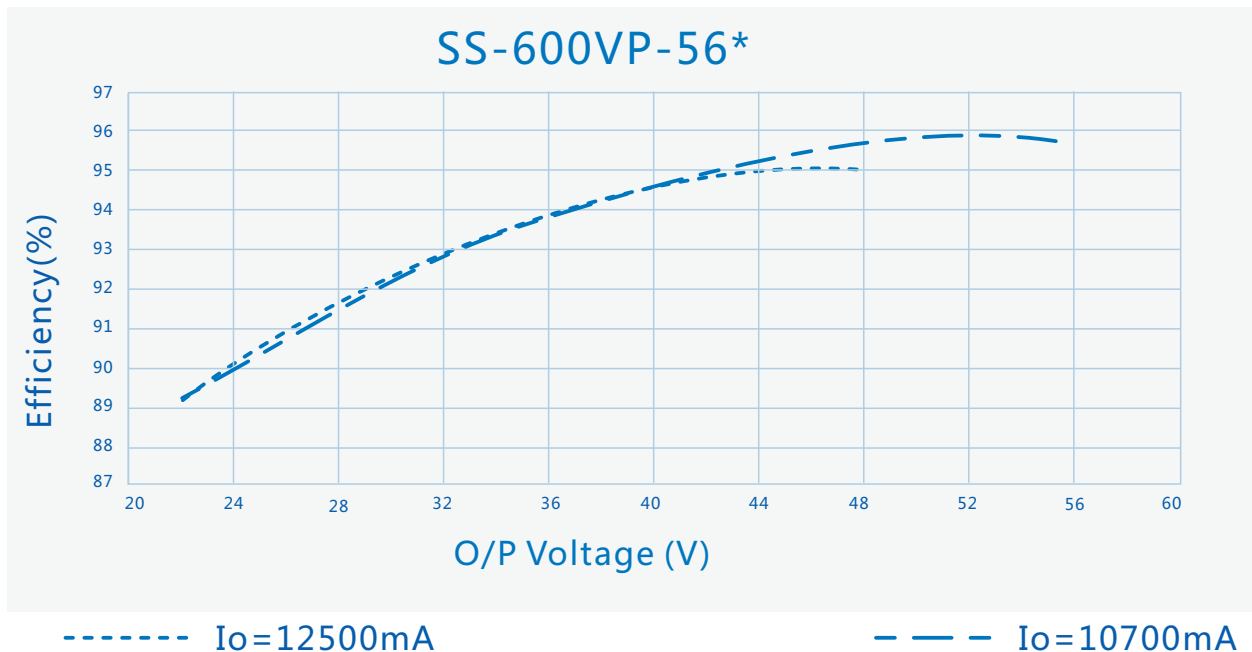
Efficiency Vs. O/P Voltage ($V_{in}=277V_{ac}$)



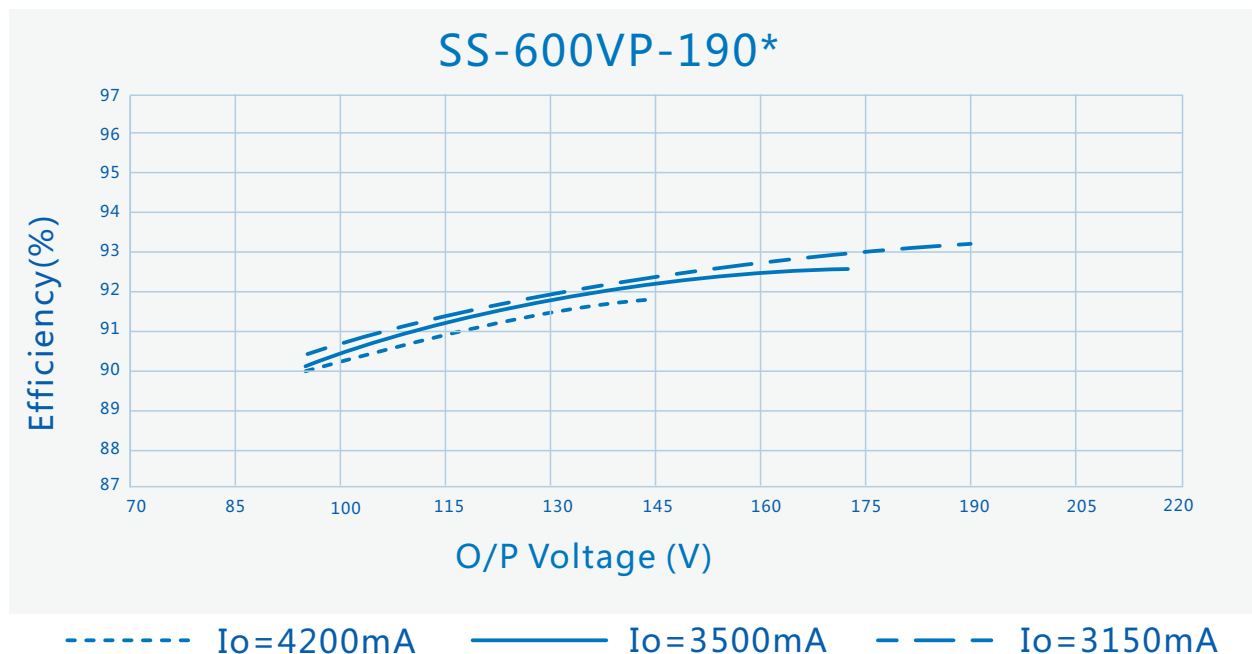
SS-600VP Series LED Driver

Performance Curves:

Efficiency Vs. O/P Voltage ($V_{in}=277V_{ac}$)



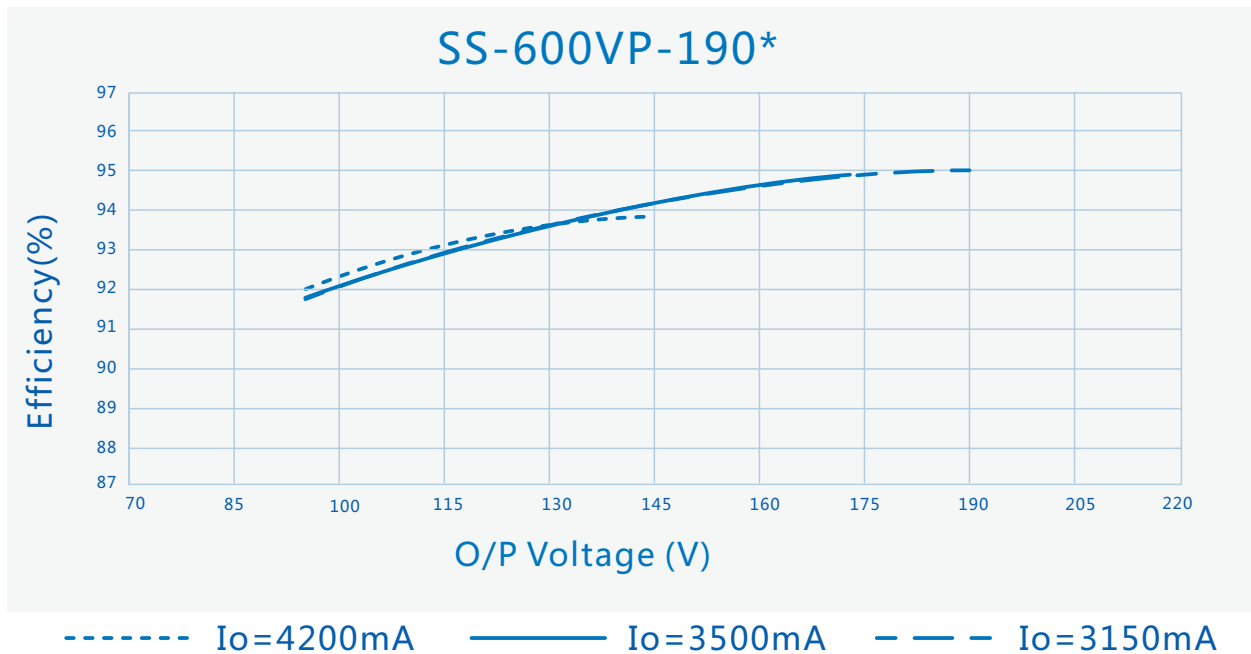
Efficiency Vs. O/P Voltage ($V_{in}=120V_{ac}$)



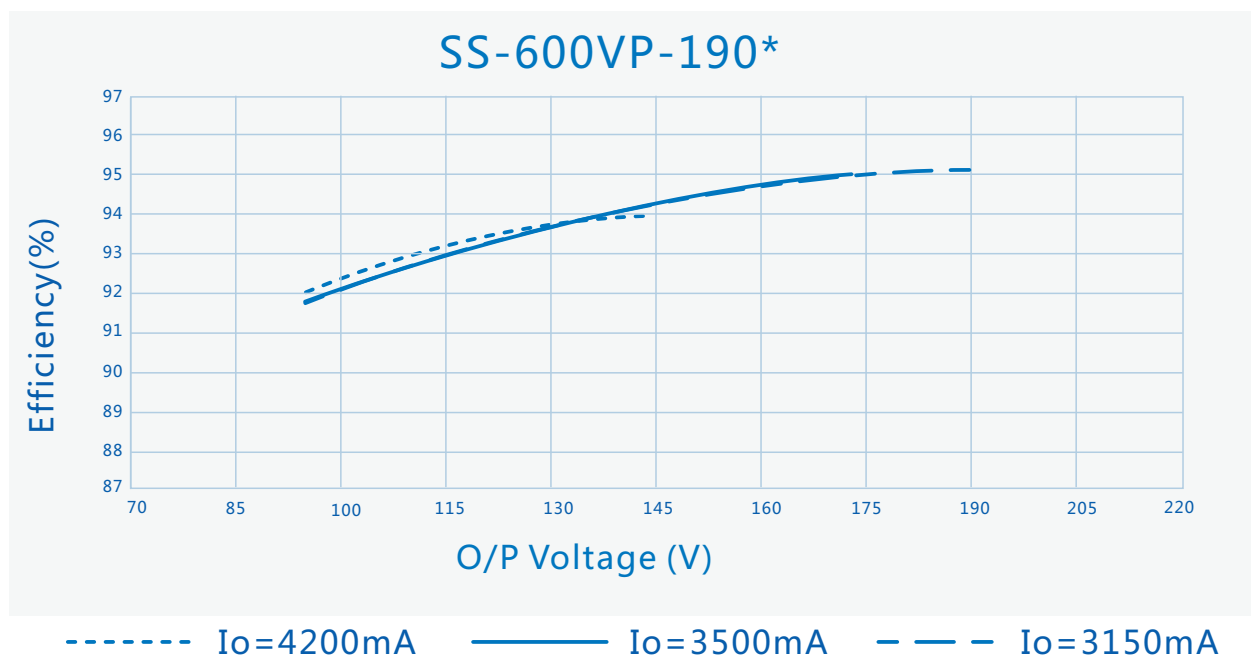
SS-600VP Series LED Driver

Performance Curves:

Efficiency Vs. O/P Voltage ($V_{in}=220V_{ac}$)



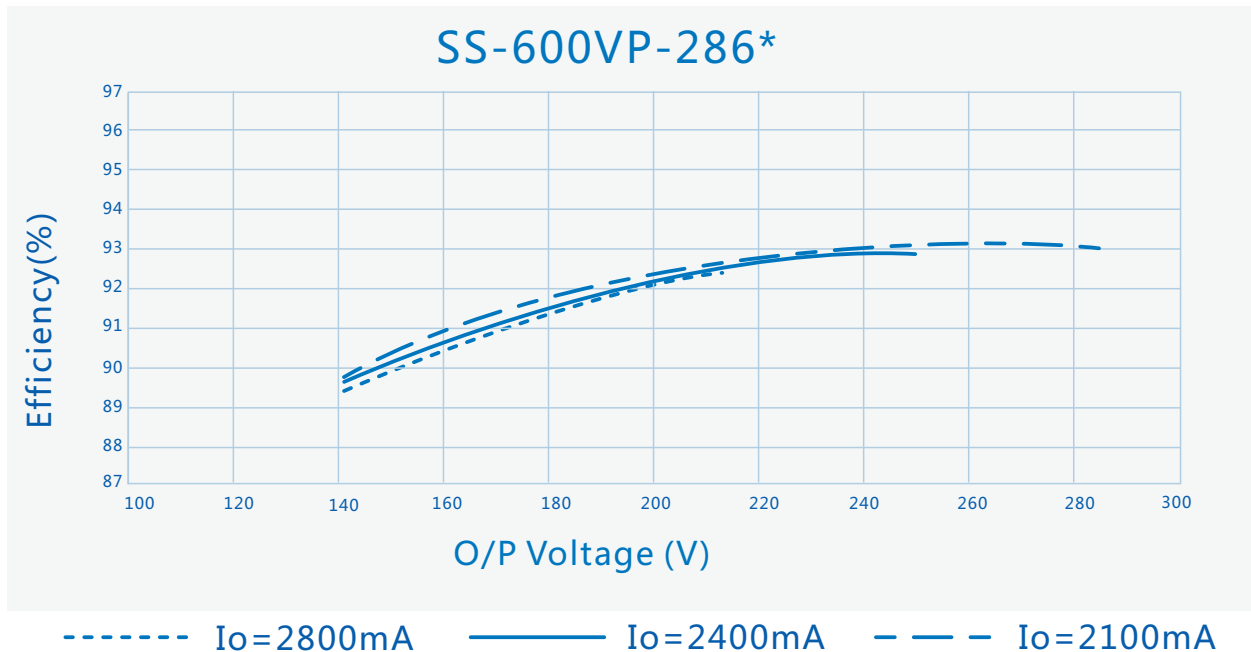
Efficiency Vs. O/P Voltage ($V_{in}=277V_{ac}$)



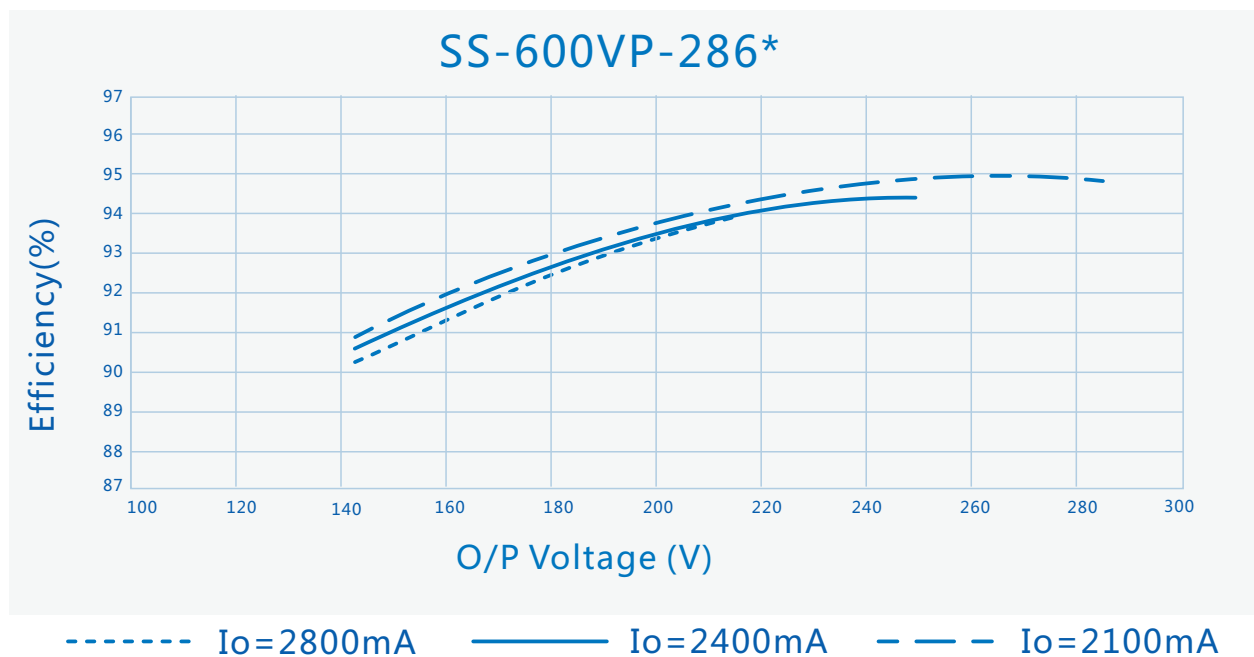
SS-600VP Series LED Driver

Performance Curves:

Efficiency Vs. O/P Voltage ($V_{in}=120V_{ac}$)



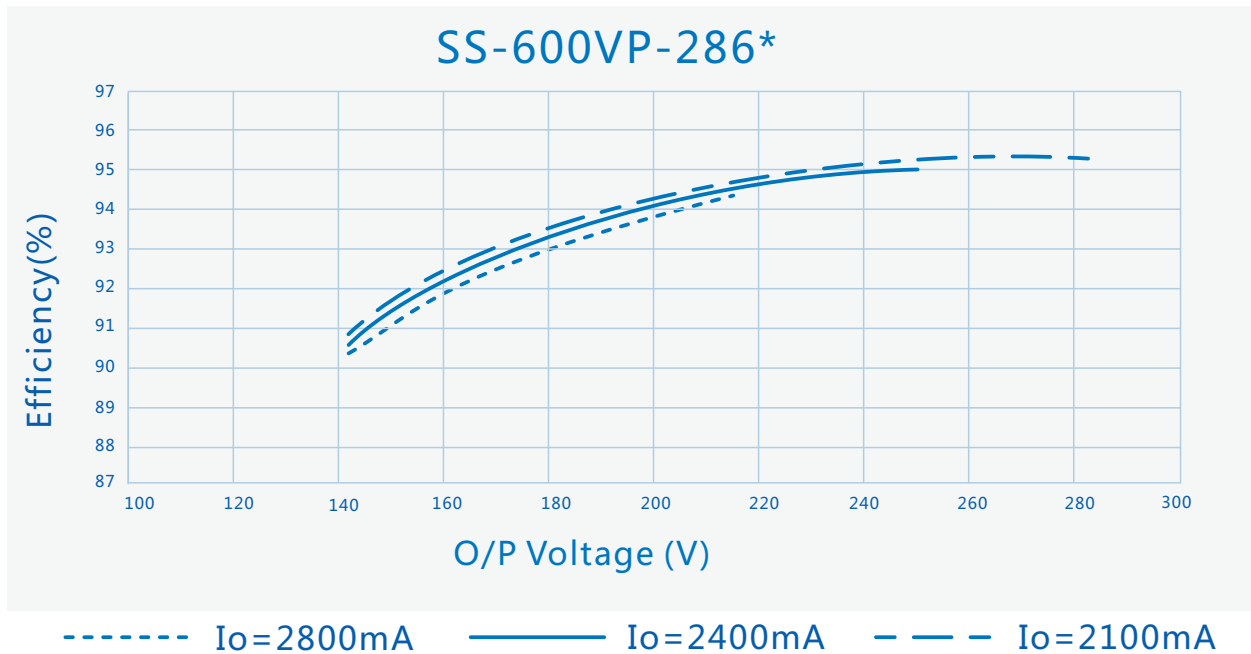
Efficiency Vs. O/P Voltage ($V_{in}=220V_{ac}$)



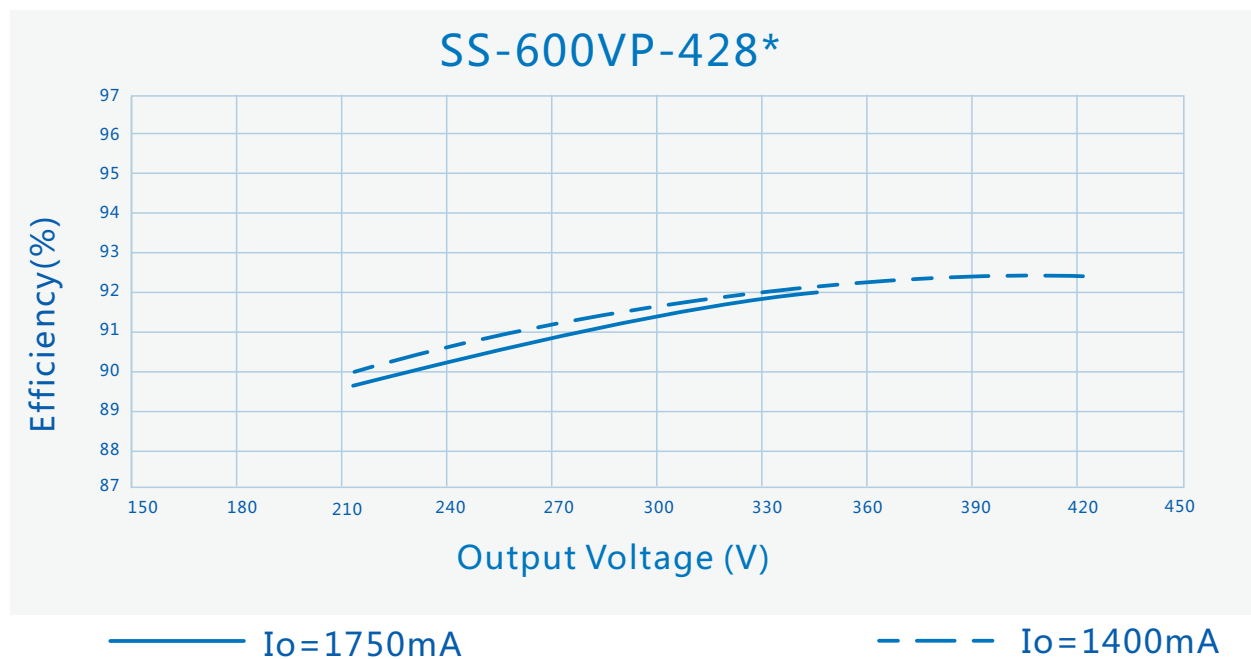
SS-600VP Series LED Driver

Performance Curves:

Efficiency Vs. O/P Voltage ($V_{in}=277V_{ac}$)



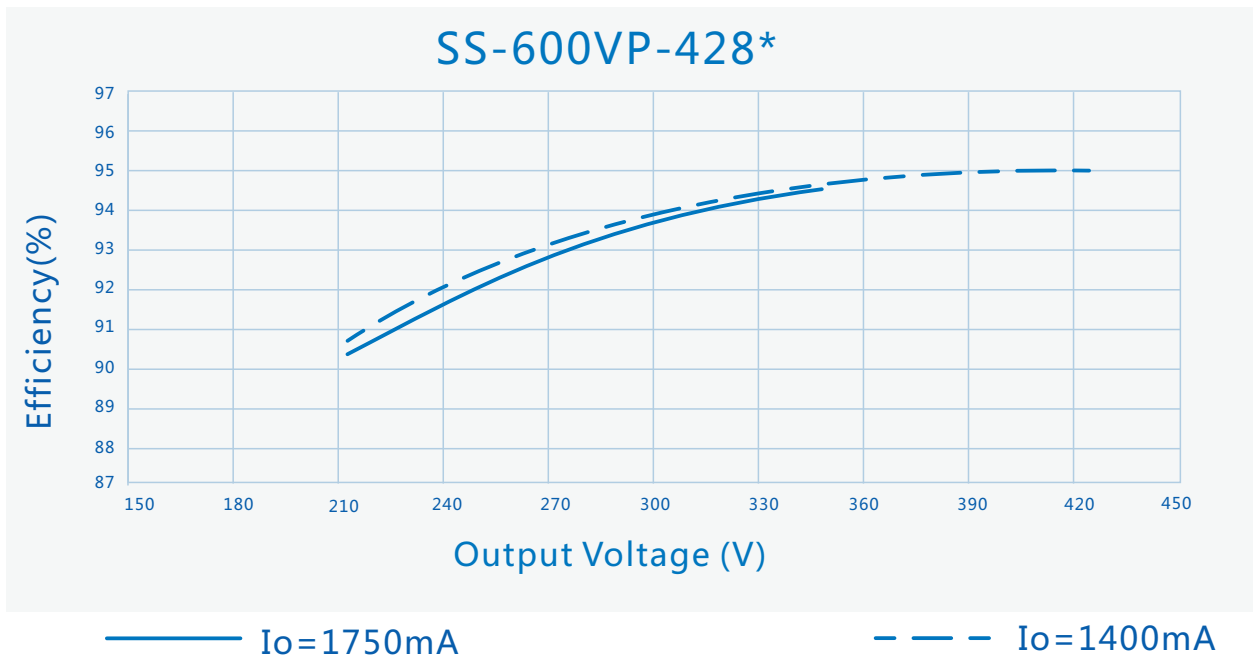
Efficiency Vs. O/P Voltage ($V_{in}=120V_{ac}$)



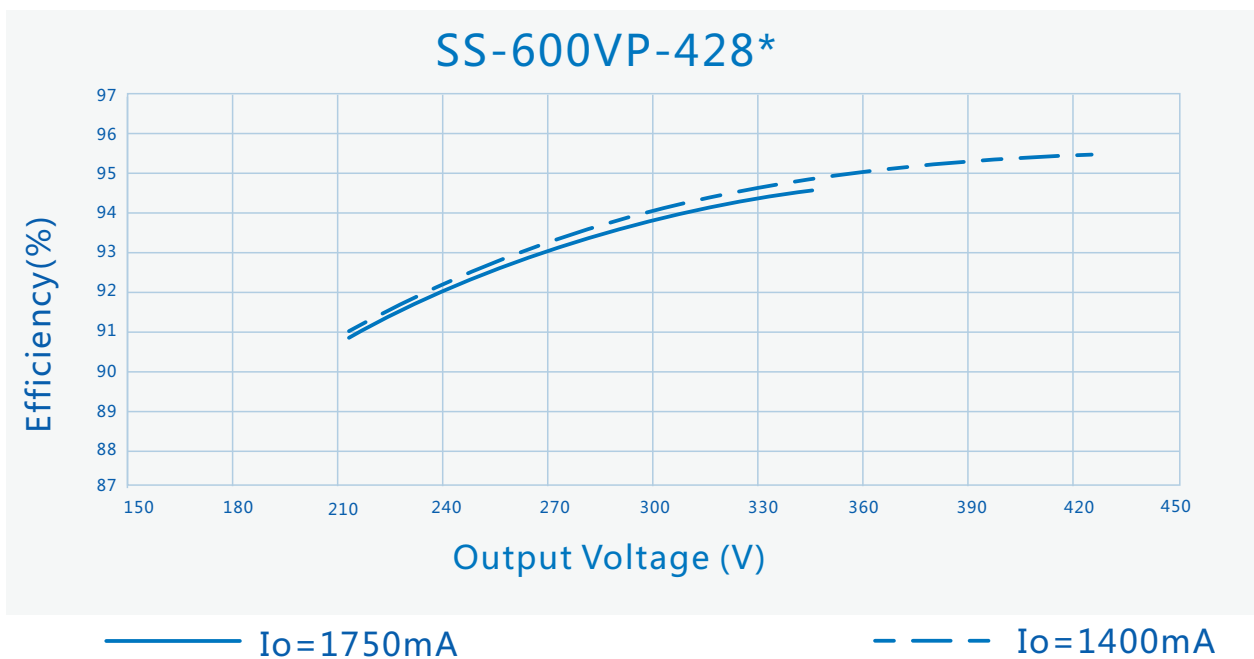
SS-600VP Series LED Driver

Performance Curves:

Efficiency Vs. O/P Voltage ($V_{in}=220V_{ac}$)



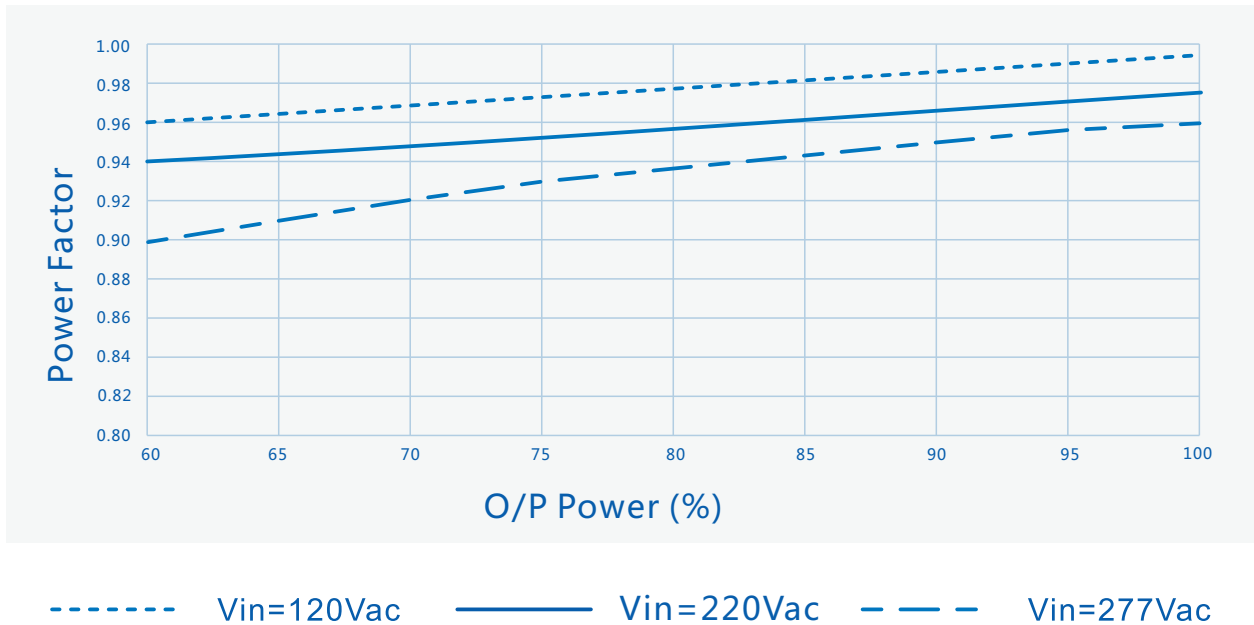
Efficiency Vs. O/P Voltage ($V_{in}=277V_{ac}$)



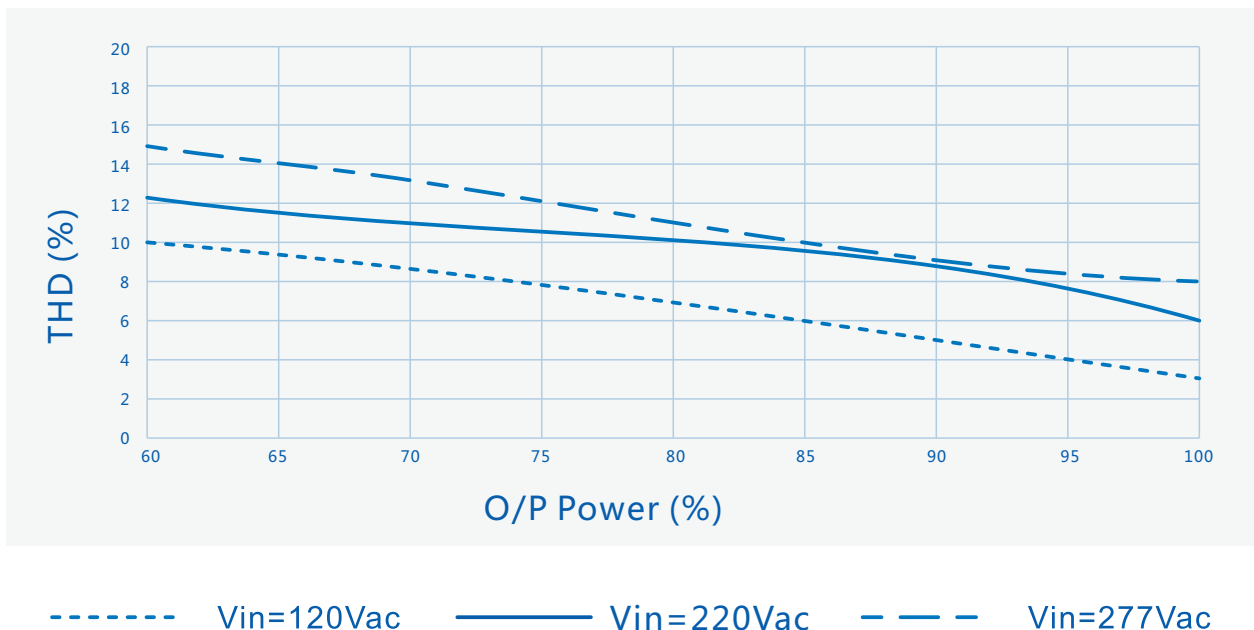
SS-600VP Series LED Driver

Performance Curves:

Power Factor Vs. O/P Power



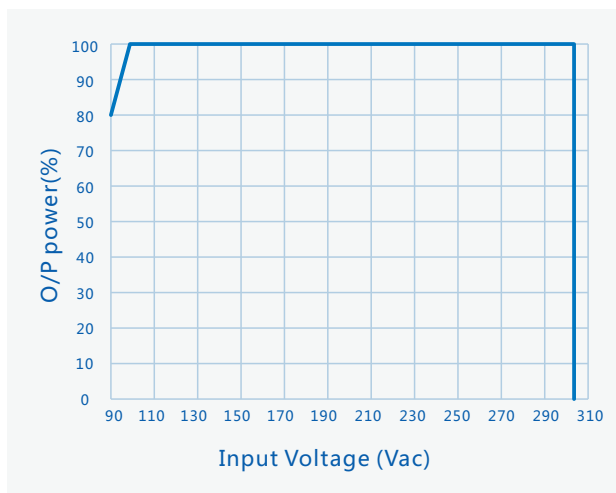
THD Vs. O/P Power



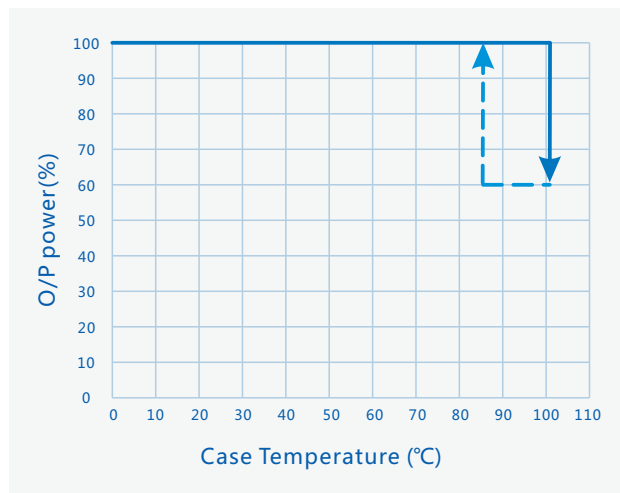
SS-600VP Series LED Driver

Performance Curves:

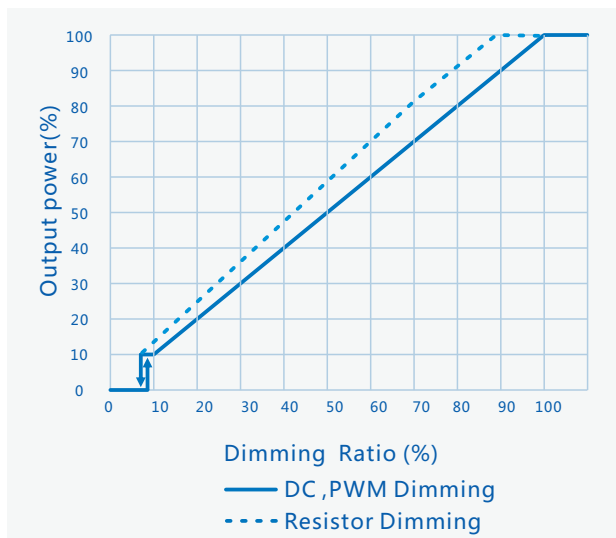
O/P Power Vs. Input Voltage



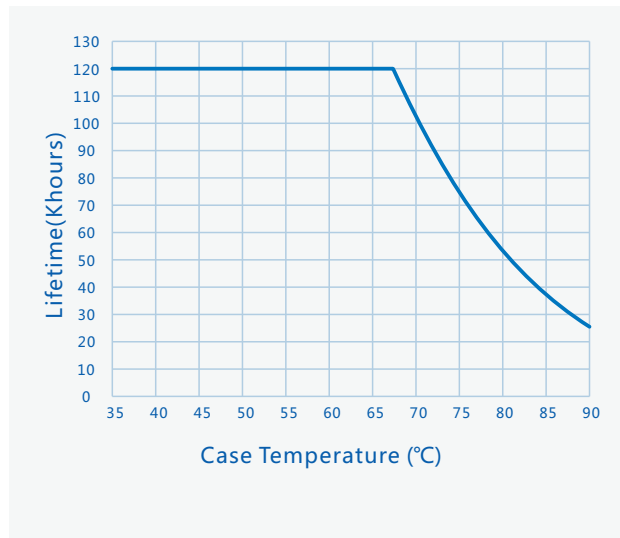
O/P Power Vs. Case Temperature



O/P Power Vs. Dimming



Life Time Vs. Case Temperature



SS-600VP Series LED Driver

Constant Lumen Output

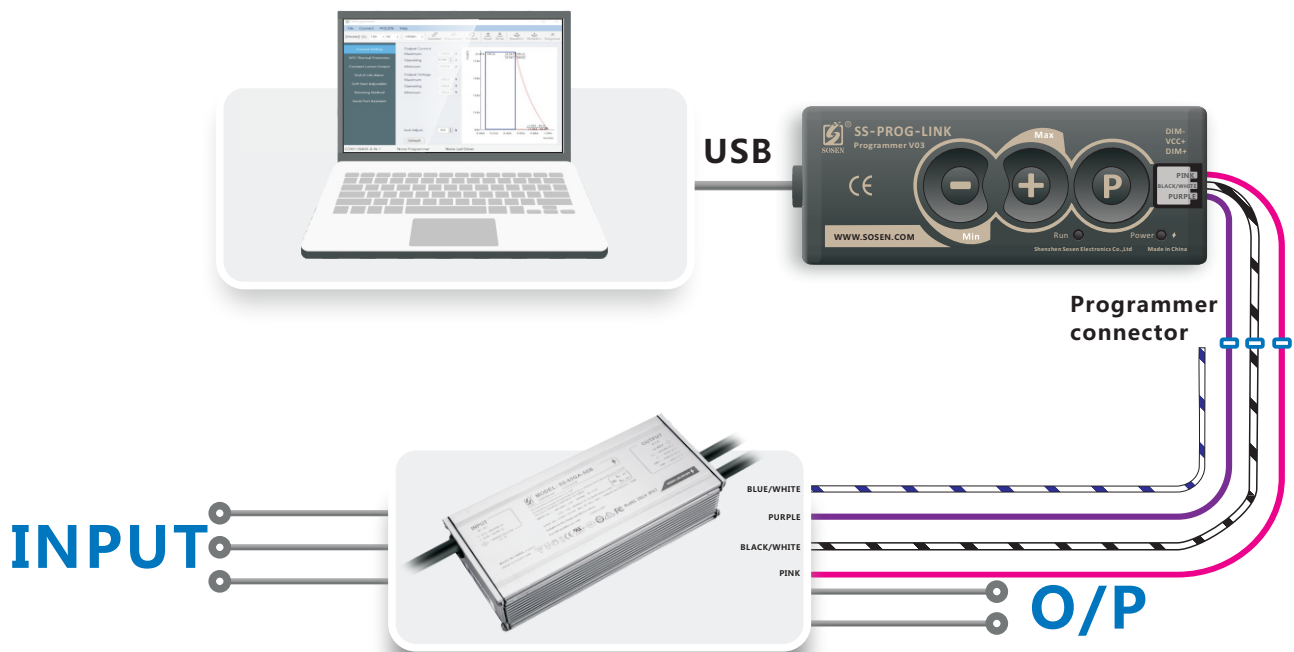
Constant Lumen Output are design to maintain fixture's stable output lumen by increasing driver's output current within driver's life span to counteract LED lumen degradation.

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:

1. Programming could be completed by off-line mode either without turn on the driver nor without PC, other than the traditional on-line mode.
2. The DALI-2 models only support setting the rated output current through SS-DALI-PUSH and does not support programming through SS-PROG-LINK with PC.

SS-600VP Series LED Driver

Mechanical Characteristics

AC Input Cable(Exposed Length 450±10mm):

Global model: SJOW, 3*17AWG, O.D: 8.0mm, Brown: L, Blue: N, Yellow/Green: ⊕

UL model: SJTW, 3*16AWG, O.D: 8.5mm, Black: L, White: N, Green: ⊕

DC O/P Cable(Exposed Length 250±10mm):

SS-600VP-24*/SS-600VP-42*/SS-600VP-56*/SS-600VP-190*:

Global model: SJOW, 2*14AWG, O.D: 8.8mm, Brown: V+ , Blue: V-

UL model: SJTW, 2*14AWG, O.D: 9.0mm, Red: V+ , Black: V-

SS-600VP-286*/SS-600VP-428*:

Global model: SJOW, 2*17AWG, O.D: 7.7mm, Brown: V+ , Blue: V-

UL model: STW, 2*18AWG, O.D: 9.0mm, Red: V+ , Black: V-

DIM/AUX Power/Programming Cable(Exposed Length 220±10mm):

UL model: 21996, 4*22AWG, O.D: 5.6mm, Purple : DIM+, Pink: DIM-,

Black/White: Vaux+, Blue/White: Vaux-

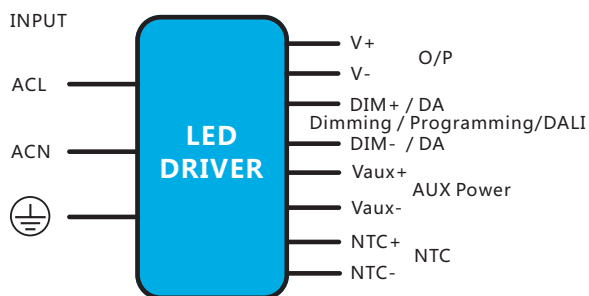
NTC Cable(Exposed Length 300±10mm):

SS-600VP-24*/SS-600VP-42*/SS-600VP-56*/SS-600VP-190*:

UL model: 21996, 2*22AWG, O.D: 4.7mm, Red/White: NTC+, Blue/White: NTC-

SS-600VP-286*/SS-600VP-428*:

EU model: H05RN-F, 2*0.75mm², O.D: 6.4mm, Brown: NTC+, Blue: NTC-

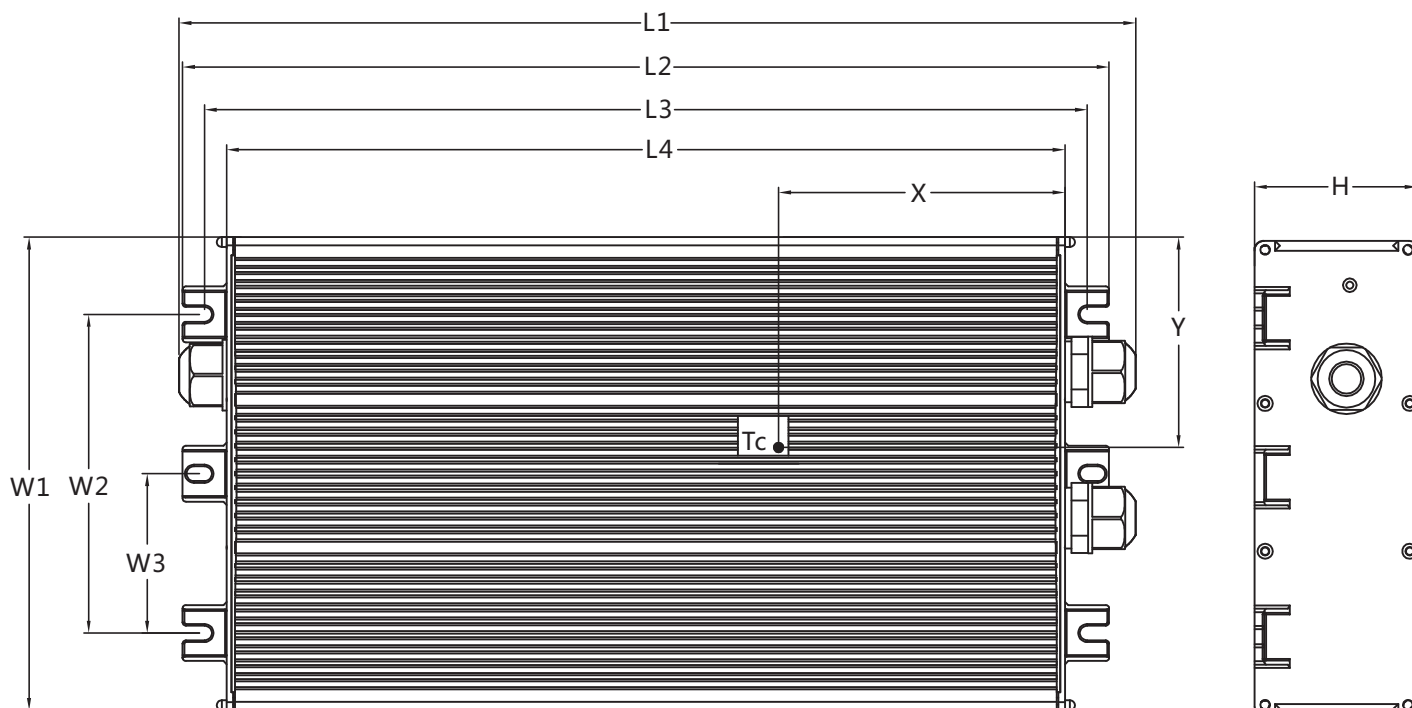


Name Description	Standard Code	mm(In.)
Assembly Length	L1	288(11.34)
Overall Length	L2	282(11.10)
Mounting Hole Length	L3	266.7(10.5)
Case Length	L4	261.2(10.28)
Case Height	H	49.5(1.95)

Note :

- 1, Please follow the "LED Driver User Manual" obtained from SOSEN's official website for assembly.
- 2, AC Input Cable, DC O/P Cable, DIM/AUX Power/Programming Cable:
Peeled length of cable: 43±5mm,
Tinned length of wire: 10±2mm

Name Description	Standard Code	mm(In.)
Case Width	W1	144(5.67)
Mounting Hole Width	W2	97(3.82)
Mounting Hole Width	W3	48.5(1.91)
TC Point Position	X	87(3.43)
TC Point Position	Y	64(2.52)



SS-600VP Series LED Driver

Mechanical Characteristics(Rubber ring structure)

The diagram shows a blue rectangular component labeled "LED DRIVER". On the left, under the heading "INPUT", there are three terminals: "ACL", "ACN", and a ground symbol. On the right, under the heading "O/P", there are several terminals: "V+", "V-", "DIM+ / DA", "DIM- / DA", "Vaux+", "Vaux-", "NTC+", and "NTC-". The "DIM+ / DA" and "DIM- / DA" terminals are grouped under the heading "Dimming / Programming/DALI". The "Vaux+" and "Vaux-" terminals are grouped under "AUX Power". The "NTC+" and "NTC-" terminals are grouped under "NTC".

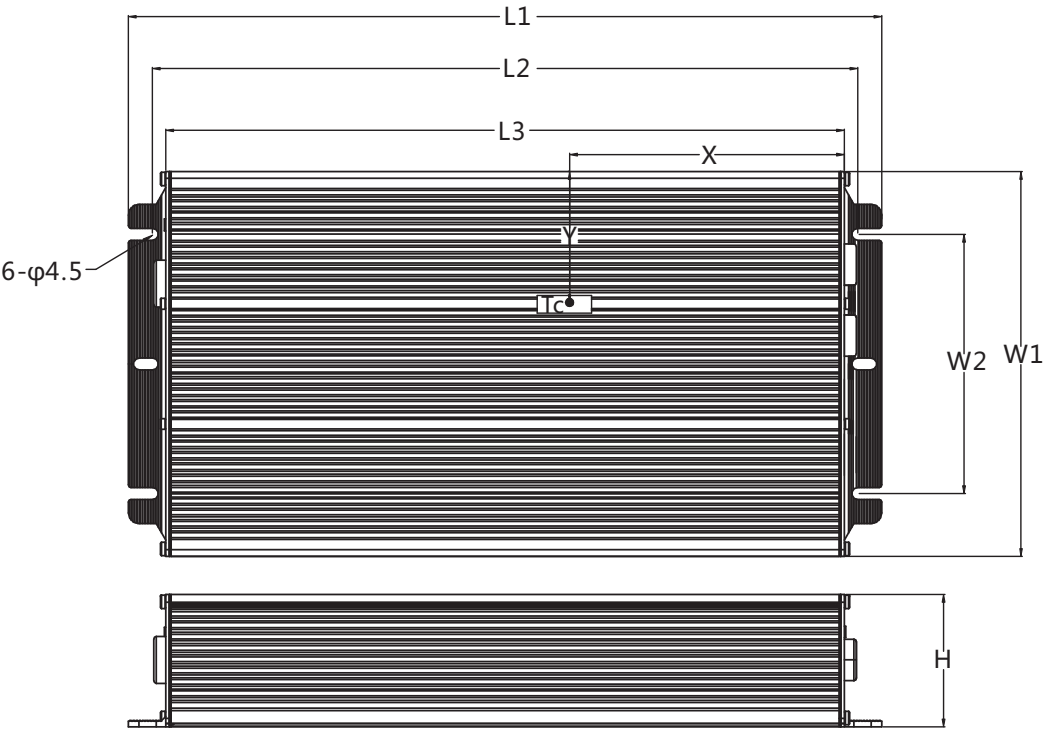
AC Input Cable(Exposed Length 450±10mm):
Global model: SJOW, 3*17AWG, O.D: 8.0mm, Brown: L, Blue: N, Yellow/Green: ⊕
UL model: SJTW, 3*16AWG, O.D: 8.5mm, Black: L, White: N, Green: ⊕

DC O/P Cable(Exposed Length 250±10mm):
SS-600VP-24*/SS-600VP-42*/SS-600VP-56*/SS-600VP-190*:
Global model: SJOW, 2*14AWG, O.D: 8.8mm, Brown: V+ , Blue: V-
UL model: SJTW, 2*14AWG, O.D: 9.0mm, Red: V+ , Black: V-
SS-600VP-286*/SS-600VP-428*:
Global model: SJOW, 2*17AWG, O.D: 7.7mm, Brown: V+ , Blue: V-
UL model: STW, 2*18AWG, O.D: 9.0mm, Red: V+ , Black: V-
DIM/AUX Power/Programming Cable(Exposed Length 220±10mm):
UL model: 21996, 4*22AWG, O.D: 5.6mm, Purple : DIM+, Pink: DIM-,
Black/White: Vaux+, Blue/White: Vaux-
NTC Cable(Exposed Length 300±10mm):
SS-600VP-24*/SS-600VP-42*/SS-600VP-56*/SS-600VP-190*:
UL model: 21996, 2*22AWG, O.D: 4.7mm, Red/White: NTC+, Blue/White: NTC-
SS-600VP-286*/SS-600VP-428*:
EU model: H05RN-F, 2*0.75mm², O.D: 6.4mm, Brown: NTC+, Blue: NTC-

Name Description	Standard Code	mm(In.)
Assembly Length	L1	282(11.10)
Overall Length	L2	264(10.39)
Mounting Hole Length	L3	254(10)
Case Height	H	49.5(1.95)

Note :
1,Please follow the "LED Driver User Manual" obtained from SOSEN's official website for assembly.
2,AC Input Cable,DC O/P Cable, DIM/AUX Power/Programming Cable:
Peeled length of cable:43±5mm,
Tinned length of wire:10±2mm

Name Description	Standard Code	mm(In.)
Case Width	W1	144(5.67)
Mounting Hole Width	W2	97(3.82)
TC Point Position	X	87(3.43)
TC Point Position	Y	64(2.52)



SS-600VP Series LED Driver



Assembly Tips

1. Dimming or AUX Power tinned connectors should be capped if not used to avoid dimming or AUX Power parts damage from external signals.

Package

- Outside carton dimension: L×W×H = 495mm×385mm×162mm;
- 4PCS/Carton;
- Net weight/Piece: 3.75kg; Gross weight/Carton: 16kg;
- Please refer to the product name, model number, manufacturer identification, QC PASS, manufacturing date on the package.

Transportation

Packaging is designed suitable for transportation by trucks, vessels and flights. The products should be avoided direct sunlight and rain, loaded/unloaded with caution.

Storage

The product storage meets the standard of the GB 3873 - 83.
Products should be rechecked if stored for over 1 year before assembly.

RoHS

Products comply with RoHS Directive (2011/65/EU) and amendment 2015/863/EU.

Revision History

Version	Description of Update	Updated Date	Remark
V00	Original Release	2019/04/22	
V01	Update Programming Diagram	2019/07/26	
V02	Update Lifetime Curve	2020/06/01	
V03	Update TC Point	2020/07/30	
V04	Update Tinned Length Of Wire	2021/07/02	
V05	Update DIM Cable Color	2021/09/02	
V06	Increase The Content Of DALI-2	2022/01/18	
V07	Update Outside Carton Dimension	2022/05/10	
V08	Add Rubber Ring Structure	2022/09/09	
V09	Add Page Number	2023/02/01	