



■ **Model Name :** PSDV700142A
ILU700N142U1A

- **Features :**
- Class II
 - Flickerless
 - Full-protection provided: OCP/OVP/OTP/SCP/OLP
 - Low Power Dissipation (Stand-by mode : <0.5Wh)
 - Wide Vout : 25 ~ 43Vdc
 - UL8750 / UL1310 (Suitable for Class 2 Wiring)
 - Compliant with CB, CE, KC, UL safety requirements for LED lighting
 - Constant Current Type
 - Factory Wiring



SU11315-16007
MSIP-REI-SLU-PSDV700142A



E480967



SOLUM CO., LTD

150, Maeyoung-Ro, Youngtong-Gu, Suwon-Si, Gyeonggi-Do, Republic of Korea 443-743

TEL: +82-1588-0502, www.solu-m.com

■ Electrical specification

No.	Item	Min	Typ	Max	Unit	Remark	
1	Nominal Input Voltage	120	220	277	Vac		
2	Variable Input Voltage	108	-	300	Vac		
3	Maximum Input Current	-	-	1	Arms		
4	Nominal Input Frequency	47	50/60	63	Hz		
5	Power Factor (PF)	90	-	-	%	1)	
6	Total Harmonic Distortion (THD)	-	-	20	%	1)	
7	Inrush Current	-	-	50	A		
8	Electrical Efficiency	87	89	-	%	2)	
9	Turn-on Delay	-	-	0.5	s	@Cold Start, 3)	
10	LED Output Current	1330	1400	1470	mA	@43Vdc Load	
11	LED Output Current Ripple	-	-	140	mA	20MHz Bandwidth, 2)	
12	LED Output Voltage	25	-	43	Vdc		
13	Adjustable of LED Current	1050	-	1400	mA	Rset	
14	12V Output Voltage	10.8	12	13.2	Vdc	2)	
15	12V Output Voltage Ripple	-	-	± 1.2	Vdc	20MHz Bandwidth, 2)	
16	12V Output Current	-	-	100	mA		
17	STBY Power Dissipation	-	-	0.5	Wh	LED Off_Remote Low	
18	Output Open LED Protection	-	54	59	Vdc	@Vpeak	
19	Output Short Circuit Protection	-	-	-	-	No Damage	
20	Storage Temperature	-40	25	80	°C		
21	Operating Temperature	-20	25	50	°C		
22	Case Temperature (Tc)	-	50	80	°C		
23	Humidity	20	-	85	%		
24	Insulation Resistance	10	-	-	MΩ	500Vdc between Input & Output	
25	Dielectric Withstand Voltage	Input to Output	3.11	-	-	kV	Apply for 1 minute 6)
26		Input to Case	3.11	-	-	kV	
27		Output to Case	0.5	-	-	kV	
28	Surge	Line to Line	4	5	-	kV	4)
29		Line to Ground	8	-	-	kV	4)
30	ESD	Contact Discharge	4	-	-	kV	5)
31		Air Discharge	8	-	-	kV	5)

※ Terminal Block Wiring Method : Factory Wiring as per UL1310

SOLUM CO., LTD

150, Maeyoung-Ro, Youngtong-Gu, Suwon-Si, Gyeonggi-Do, Republic of Korea 443-743

TEL: +82-1588-0502, www.solu-m.com

Notes

- 1) Test Condition: 120~277Vac 50/60Hz Input, Max. dimming ,Ambient Temperature 25°C
- 2) Test Condition: 120~277Vac 60Hz Input, Max. dimming, 30min. Aging, Ambient Temperature 25°C,
 Measure at the cable-end
- 3) At least, Turn-On Time should be continued for 1sec.
- 4) Surge Specification above is higher than IEC/EN 61000-4-5. (Differential 1kV, Common 2kV)
- 5) ESD Specification above meets IEC/EN 61000-4-2 Requirements. (Contact 4kV, Air 8kV)
- 6) Determined by Paragraph 34.1.2, UL1310 or Paragraph 8.4.2, UL8750, EN61347-1, EN61347-2-13

Safety Standards

Including safety requirements above, the LED driver complies with the following safety standards:

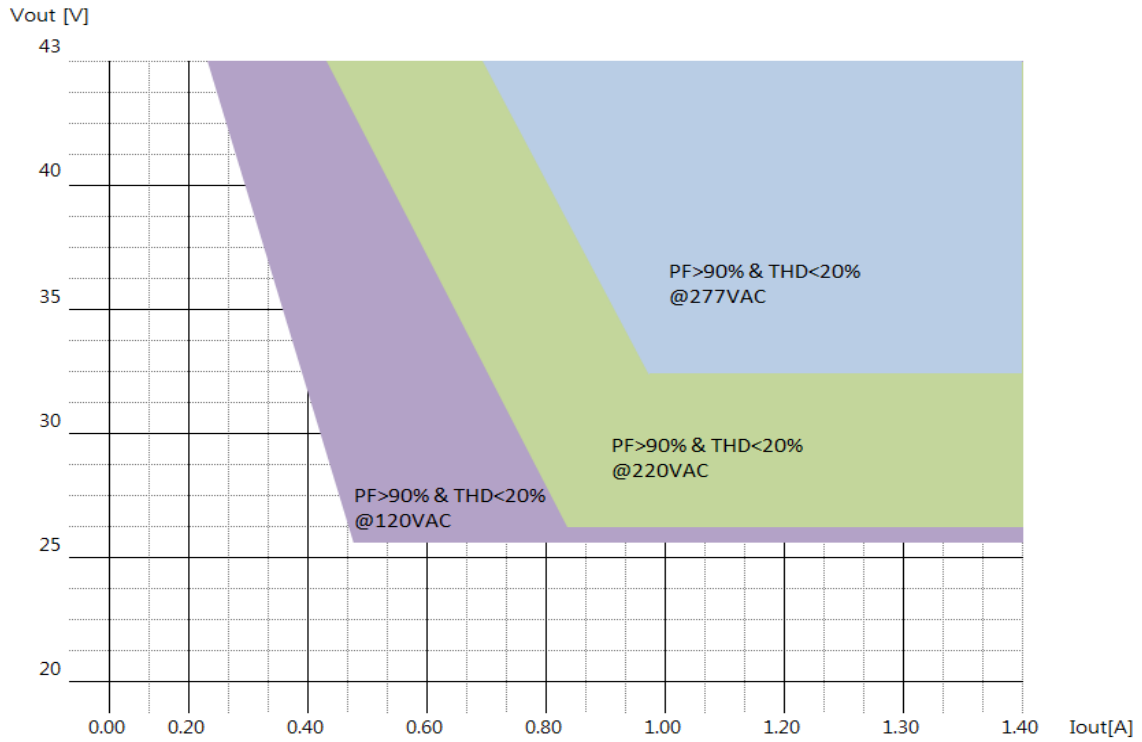
No.	Item	Description
1	UL8750, UL1310	UL Safety Standards (Class 2, Dry and Damp Location)
2	FCC Part 15, Class B	Conducted and Radiated Emission Test
3	IEC/EN 61347-1, IEC/EN 61347-2-13	IEC/EN Safety Standards
4	IEC/EN 55015	Conducted and Radiated Emission Test
5	IEC/EN 61000-3-2	Harmonic current emissions: Class C
6	IEC/EN 61000-3-3	Voltage Fluctuations and Flicker
7	IEC/EN 61000-4-2	Electrostatic Discharge (ESD): Contact 4kV, Air 8kV
8	IEC/EN 61000-4-3	Radio-frequency Electromagnetic Fields
9	IEC/EN 61000-4-4	Electrical Fast Transients (EFT)
10	IEC/EN 61000-4-5	Surges: Differential 1kV, Common 2kV
11	IEC/EN 61000-4-6	Injected Currents
12	IEC/EN 61000-4-8	Power Frequency Magnetic Fields
13	IEC/EN 61000-4-11	Voltage Dips and Short Interruptions

SOLUM CO., LTD

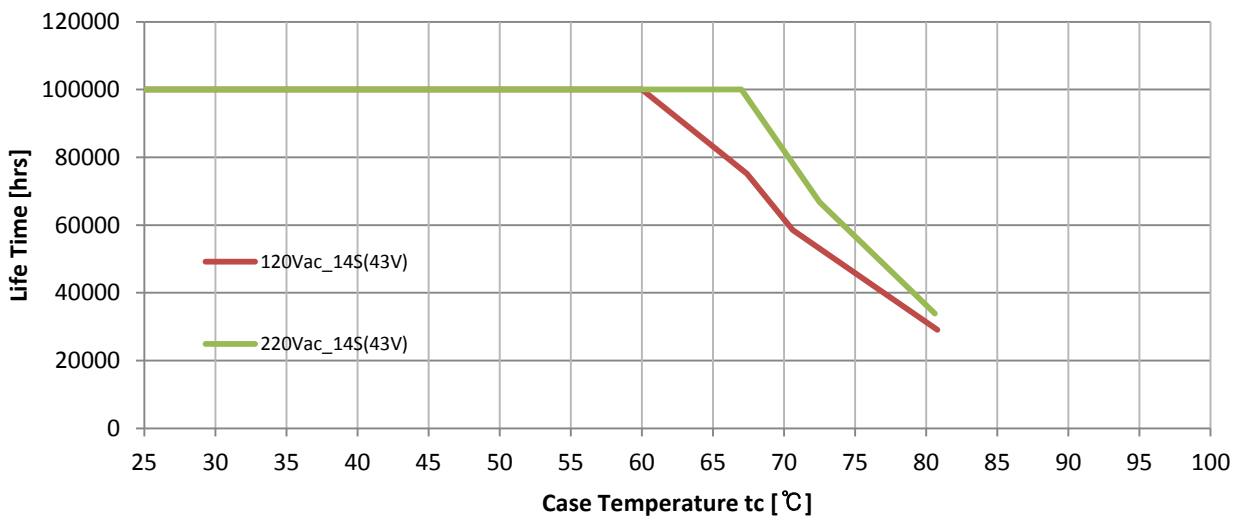
150, Maeyoung-Ro, Youngtong-Gu, Suwon-Si, Gyeonggi-Do, Republic of Korea 443-743

TEL: +82-1588-0502, www.solu-m.com

■ Operating window



■ Life Time vs Tcase (TBD)



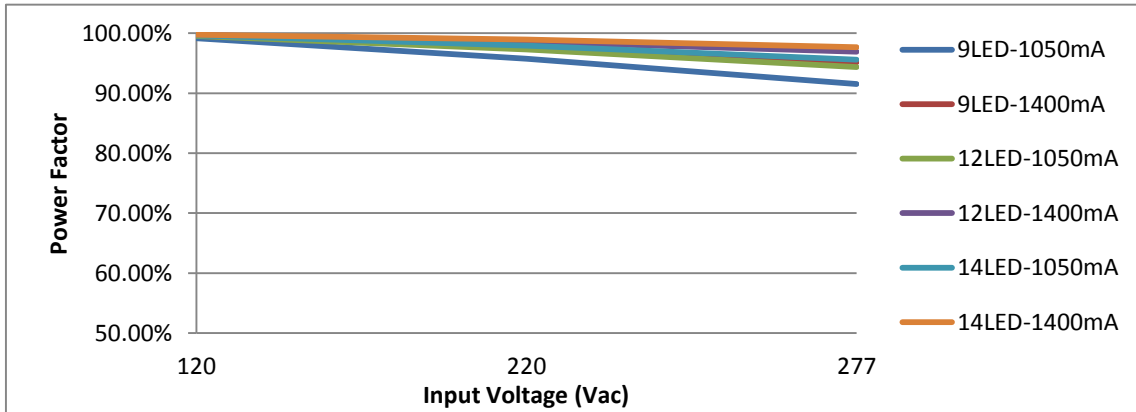
Remark) LED Driver has a rated lifetime of 50,000 hours @ Tc ≤ 65°C

SOLUM CO., LTD

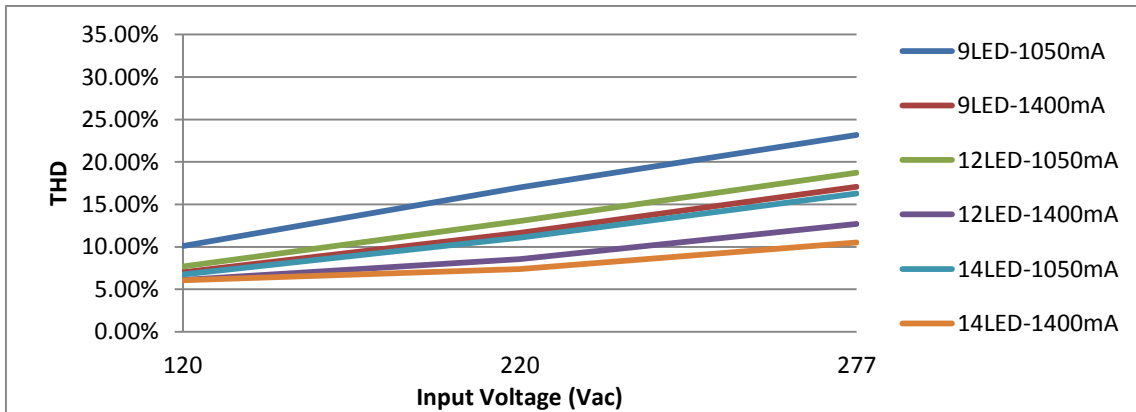
150, Maeyoung-Ro, Youngtong-Gu, Suwon-Si, Gyeonggi-Do, Republic of Korea 443-743

TEL: +82-1588-0502, www.solu-m.com

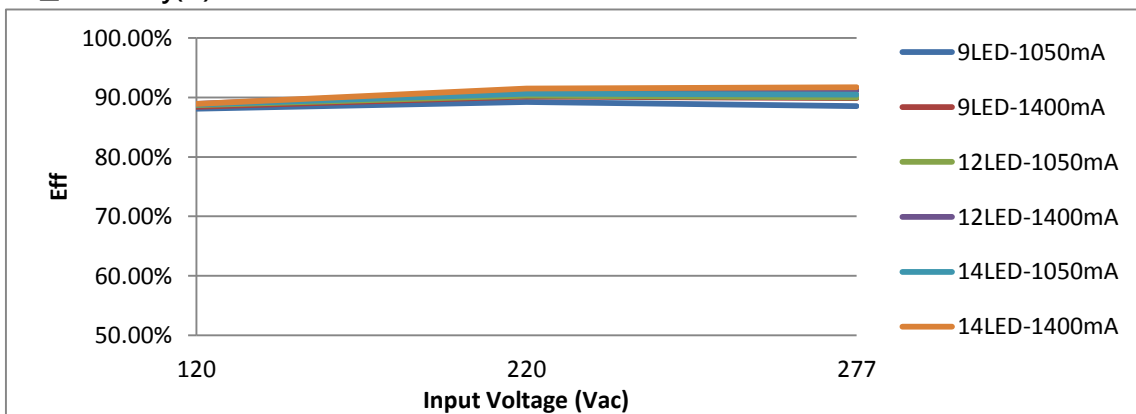
Power Factor



THD(%) (TBD)



Efficiency(%)

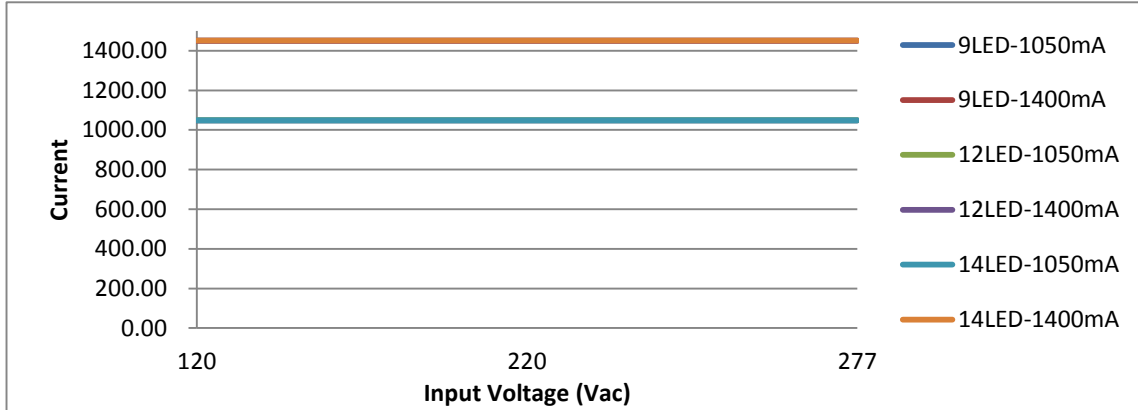


SOLUM CO., LTD

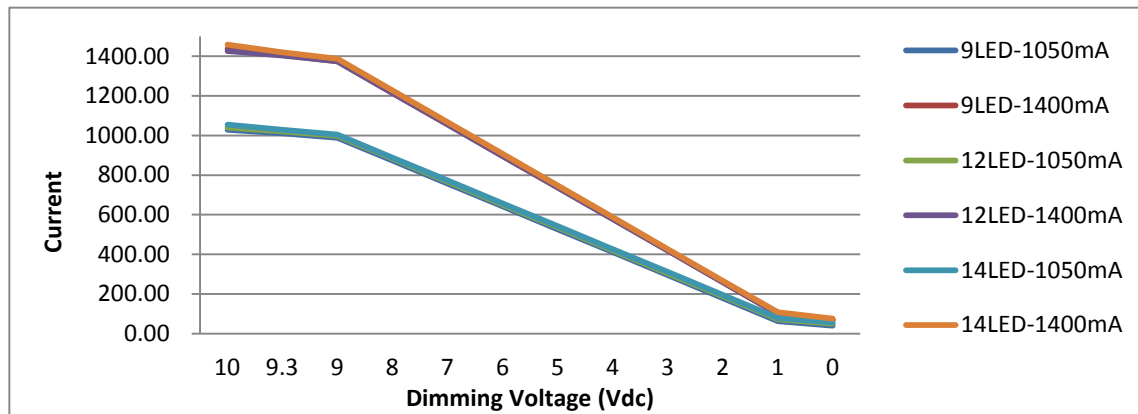
150, Maeyoung-Ro, Youngtong-Gu, Suwon-Si, Gyeonggi-Do, Republic of Korea 443-743

TEL: +82-1588-0502, www.solu-m.com

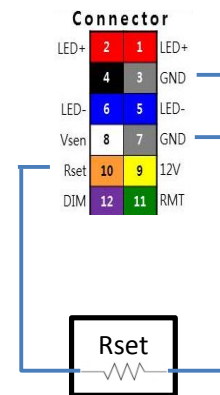
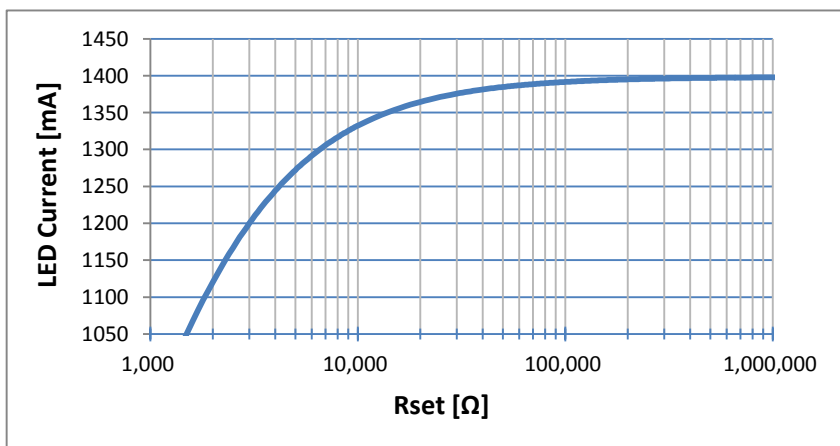
Output Current(mA)



Dimming curve



Adjustable of Current

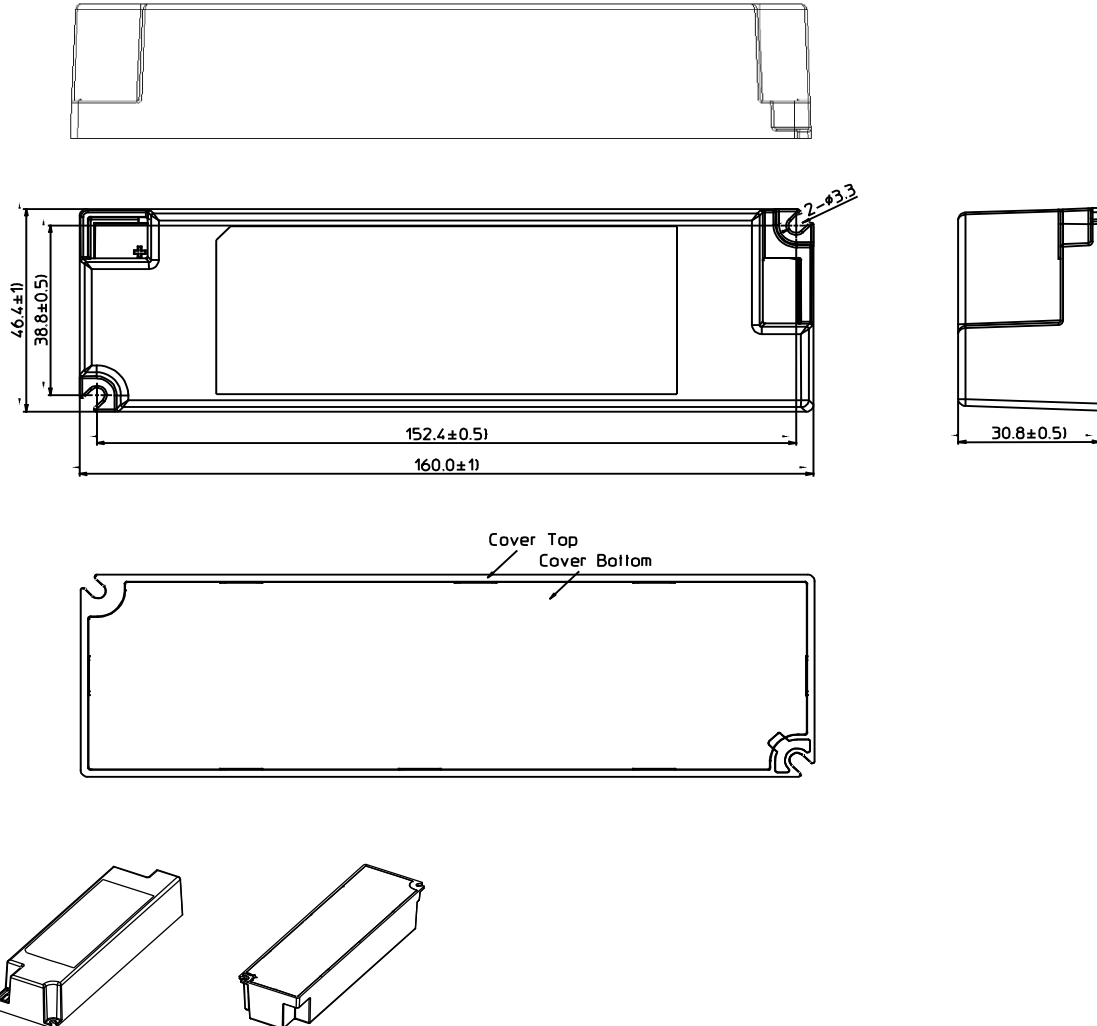


SOLUM CO., LTD

150, Maeyoung-Ro, Youngtong-Gu, Suwon-Si, Gyeonggi-Do, Republic of Korea 443-743

TEL: +82-1588-0502, www.solu-m.com

■ Mechanical Specification



■ Enclosure Size

Unit	Width	Length	Height	Mount Length	Overall Length
mm	46.4	160.0	30.8	160.0	160.0
inch	1.83	6.30	1.21	6.30	6.30

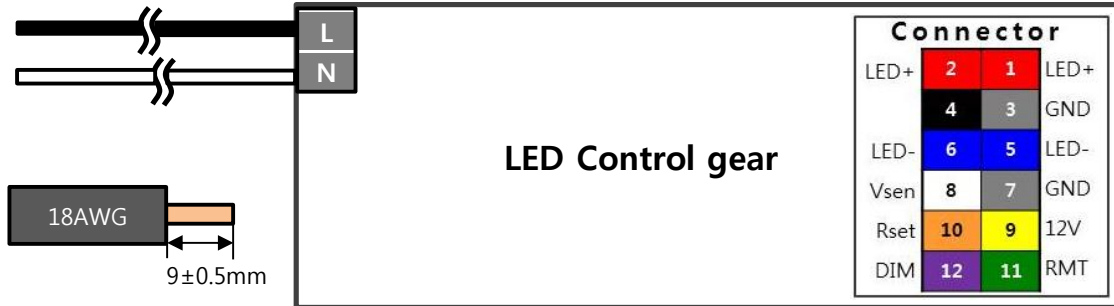
■ Case Material : PC

SOLUM CO., LTD

150, Maeyoung-Ro, Youngtong-Gu, Suwon-Si, Gyeonggi-Do, Republic of Korea 443-743

TEL: +82-1588-0502, www.solu-m.com

■ Wiring Diagram



※ Caution

- 1) Do not detach input and output wires after complete installation
- 2) Use wires certified by UL, CB, KC
- 3) Wires should be less than 2m when installed in final equipment

■ Output Connector Specification

Wafer	Housing	Terminal	Wire
SMW200-12C YENOHO	SMH200-12C YENOHO	YST200-C YENOHO	22AWG

Remark) Output wiring specifications may be changed without notification

■ Rating Label Drawing

BLACK (검정) L
WHITE (흰색) N

18AWG
9±0.5mm

PRI_정격입력
U_{in} : 120 - 277V~
50/60 Hz
I_{in} : Max. 1.0A
0.33A...220Vac&P_{out} = 63W
0.19A...220Vac&P_{out} = 27W
P_{in} : Max. 77W
λ_{역률} : 0.9

LED CONVERTER

조명기구용 컨버터(LED램프용)

Constant Current (정전류 방식)
Flickerless / Unified Dim.
Adjustable Output Current_Rset
Low Standby Power Consumption
Suitable for Class 2 Wiring

Model/모델: ILU700N142U1A
Name/기종 : PSDV700142A

www.solu-m.com
AS: +82-1588-0502

Made in China Dongguan SOLUM Electronics Co., Ltd.
Made in China Dongguan APTECH Electronics Co., Ltd.

Caution (주의사항)
SELV-equivalent control gear 내장형
Suitable for dry and damp location
Use for LED Module only
Do not open the case
Input wire : 18AWG/0.75mm²

ta: -20 - 50°C
tc: 80°C

SELV

UL E480967
CE
SU11315-16007
MSIP-REI-SLU-PSDV700142A

Connector			
LED+	2	1	LED+
	4	3	GND
LED-	6	5	LED-
Vsen	8	7	GND
Rset	10	9	12V
DIM	12	11	RMT

SEC_정격출력
P_{out} : 63 W
I_{out} : 1.4A
V_{out} : 25 - 43V~
V_{OLP} : Max. 59V~
(OLP: Open Lamp_무부하)

SEC-12V_12V출력
P_{out} : 1.5 W
I_{out} : 0.100 A
V_{out} : Max. 13.2V~

SOLUM CO., LTD

150, Maeyoung-Ro, Youngtong-Gu, Suwon-Si, Gyeonggi-Do, Republic of Korea 443-743

TEL: +82-1588-0502, www.solu-m.com

Barcode Label



DATE
BARCODE
LOT NO

- 7 DEVELOPMENT Rev X01~99
- MP Rev A01~99
- 6 SERIAL No 4 Digit
- 5 MODEL CODE 3 Digit
- 4 PRODUCTION DATE 2 Digit
- 3 PRODUCTION MONTH 1 Digit
- 2 PRODUCTION YEAR 2 Digit
- 1 PRODUCTION COUNTRY 2 Digit

Mean	1.PLANT	2. YEAR	3. MONTH	4. DATE	5. CODE	6. SERIAL	7. Revision No
Digit	2	2	1	2	3	4	
EX.	C1 : DGSM C2 : Solytech C3 : IM C4 : Ap tech K1 : Korea	00~99	1...9,A,B	01~31	209	0001.. 9999	X01~99 : DEVELOPMENT A01~99: MP

Box Label

Material Code	ILU700N142U1A		→ USER Model Code
ITEM	PSDV700142A REV. A**		→ SOLUM Model Code
LOT No	*****	MAKER	→ SOLUM LOT NO & Quantity of Products
Quantity [PCS]	42	SOLUM	
EXP. Date	20**.**.* ~ 20**.**.*		→ Product Date ~ After 5 years
	00000084B001 E601 P0315D001		→ USER Barcode

Digit	Year	Month	Date	Factory	Fixed				
	22	23	24	25	26	27	28	29	30
P	0	1	0	1	D	0	0	1	
N→2015	01~12月		01~31日		D : DGSM				
P→2016					S : Solytech				
Q→2017					M : IM				
R→2018					A : Aptech				

#6 USER Barcode

Digit	Quantity Per BOX									BOX Size	Serial No.				Blank	Vender Code						Blank	Year			Month			Date			Factory			Fixed		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							
	0	0	0	0	0	0	0	1	0	B	0	0	1		E	6	0	1				P	0	1	0	1	D	0	0	1							
										A : Pallet B : BOX	001~999												N→2015			01~12月			01~31日			D : DGSM					
																							P→2016						S : Solytech								
																							Q→2017						M : IM								
																							R→2018						A : Aptech								

SOLUM CO., LTD

150, Maeyoung-Ro, Youngtong-Gu, Suwon-Si, Gyeonggi-Do, Republic of Korea 443-743

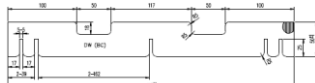
TEL: +82-1588-0502, www.solu-m.com

■ Packing Drawing

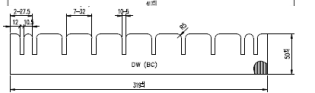
1. Out Box

Dimension	420(L) 332(W) 180(H) [mm]
Weight	< 11Kg
Quantity	42EA / 1Box

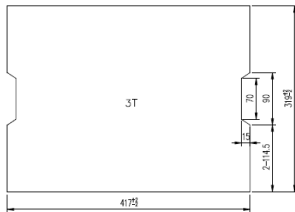
CROSS PAD A



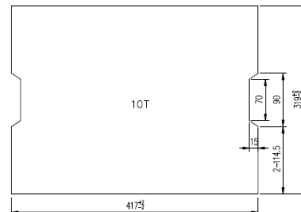
CROSS PAD B



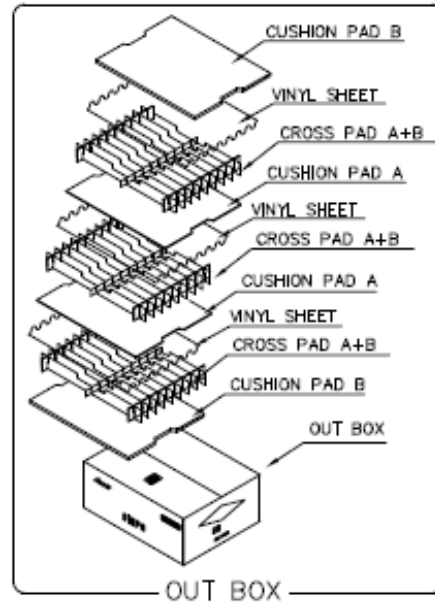
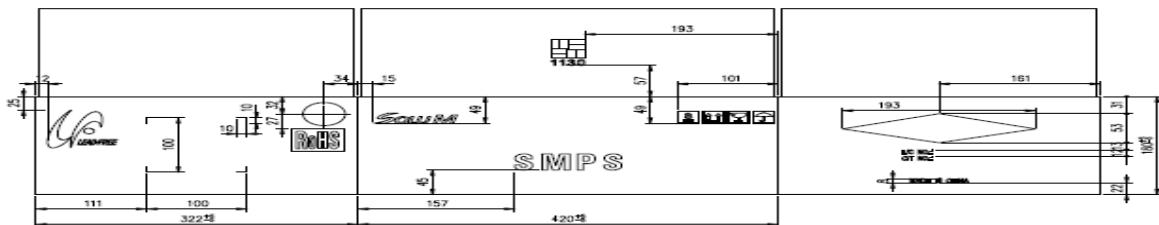
CUSHION PAD (A)



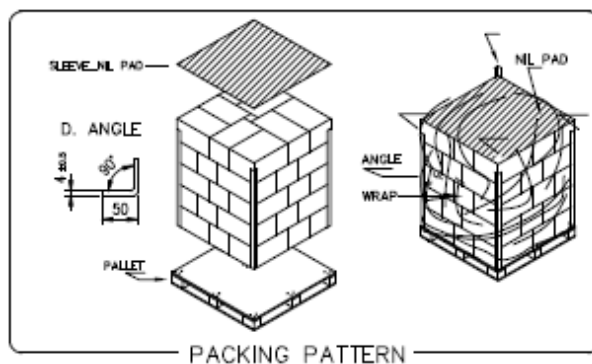
CUSHION PAD (B)



OUT BOX



2. Pallet



SOLUM CO., LTD

150, Maeyoung-Ro, Youngtong-Gu, Suwon-Si, Gyeonggi-Do, Republic of Korea 443-743

TEL: +82-1588-0502, www.solu-m.com