

■ **Model Name :** PSDV400701K
ILU400M701U1K

- **Features :**
- Class II
 - Flickerless
 - Full-protection provided: OCP/OVP/OTP/SCP/OLP
 - Low Power Dissipation (Stand-by mode : <0.5Wh)
 - Wide Vout : 25 ~ 50Vdc
 - UL8750 / UL1310 (Suitable for Class 2 Wiring)
 - Compliant with CB, CE, KC safety requirements for LED lighting
 - Constant Current Type
 - Factory Wiring

한국표준협회



제 16-0428호
(KS C 7655)



SU11315-16021
MSIP-REI-SLU-ILU400M701U1K



SOLUM CO., LTD

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

■ Electrical specification

No.	Item	Min	Typ	Max	Unit	Remark	
1	Nominal Input Voltage	110	220	277	Vac		
2	Variable Input Voltage	99	-	300	Vac		
3	Maximum Input Current	-	-	0.6	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	84	87	-	%	2)	
9	Turn-on Delay	-	-	0.5	s	@Cold Start, 3)	
10	LED Output Current	665	700	735	mA	@50Vdc Load 2)	
11	LED Output Current Ripple	-	-	70	mA	20MHz Bandwidth, 2)	
12	LED Output Voltage	25	-	50	Vdc		
13	Adjustable of LED Current	500	-	700	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	-	-	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	-	-	kV	4)
29		Line to Ground	6	-	-	kV	4)
30	ESD	Contact Discharge	4	-	-	kV	5)
31		Air Discharge	8	-	-	kV	5)

※ Terminal Block Wiring Method : Factory Wiring as per UL1310

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Notes

- 1) Test Condition: 110~277Vac 50/60Hz Input, Max. dimming ,Ambient Temperature 25°C
- 2) Test Condition: 110~277Vac 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:

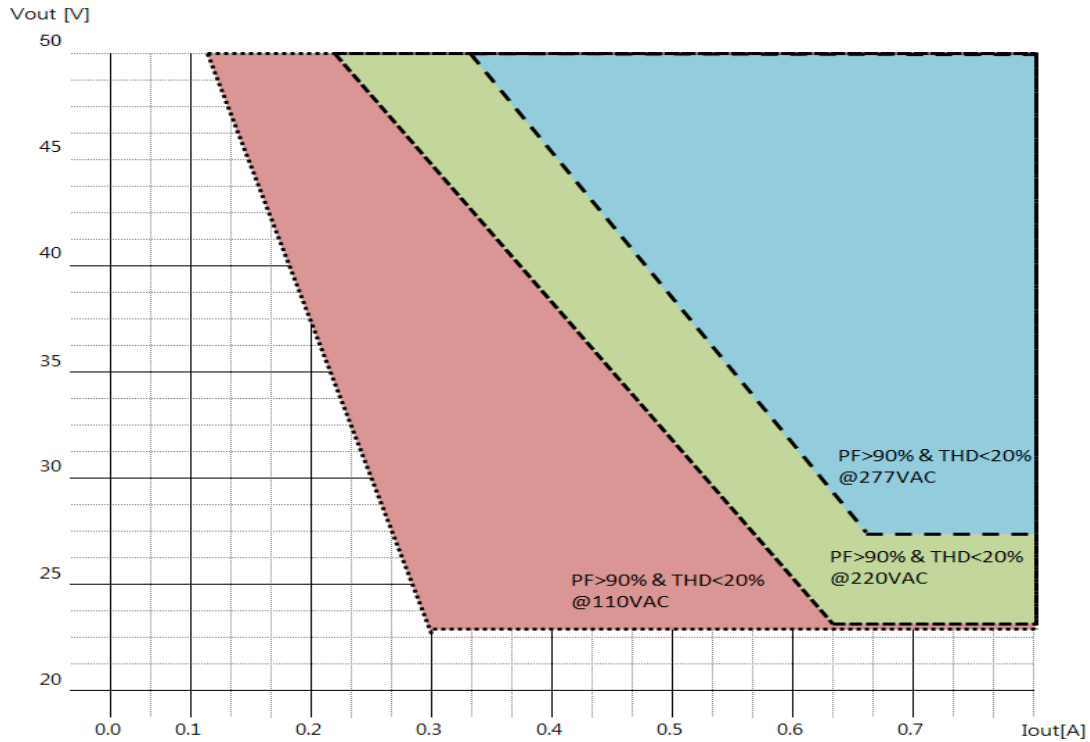
No.	Item	Description
1	UL8750, UL1310	UL Safety Standards (Class 2, Dry and Damp Location)
2	FCC Part 15, Class B	Conducted and Radiated Emission Test
3	IEC/EN 61347-1, IEC/EN 61347-2-13	IEC/EN Safety Standards
4	IEC/EN 55015	Conducted and Radiated Emission Test
5	IEC/EN 61000-3-2	Harmonic current emissions: 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

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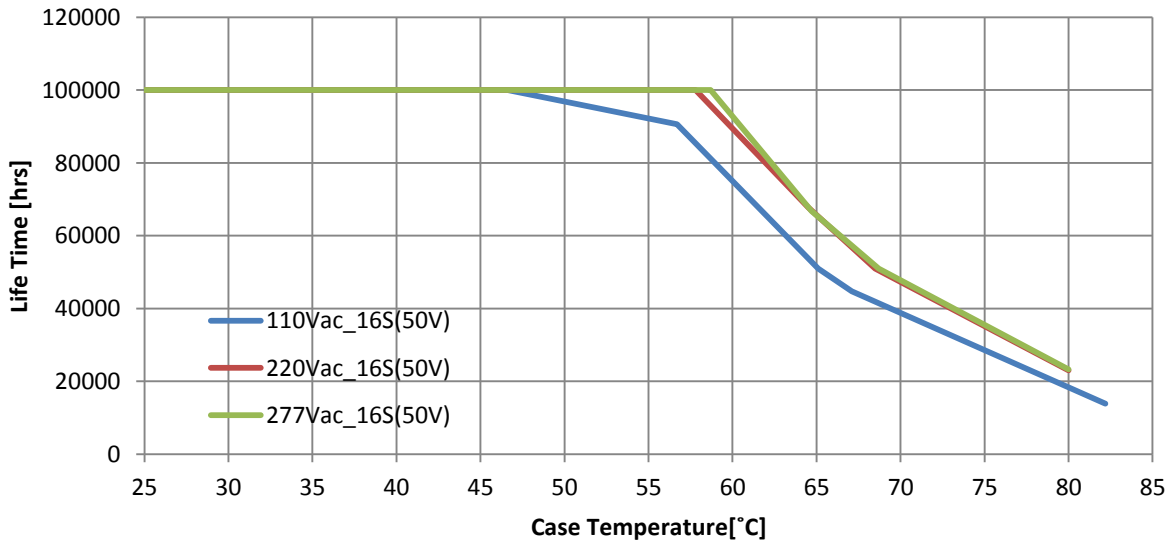
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■ Operating window



■ Life Time vs Tcase



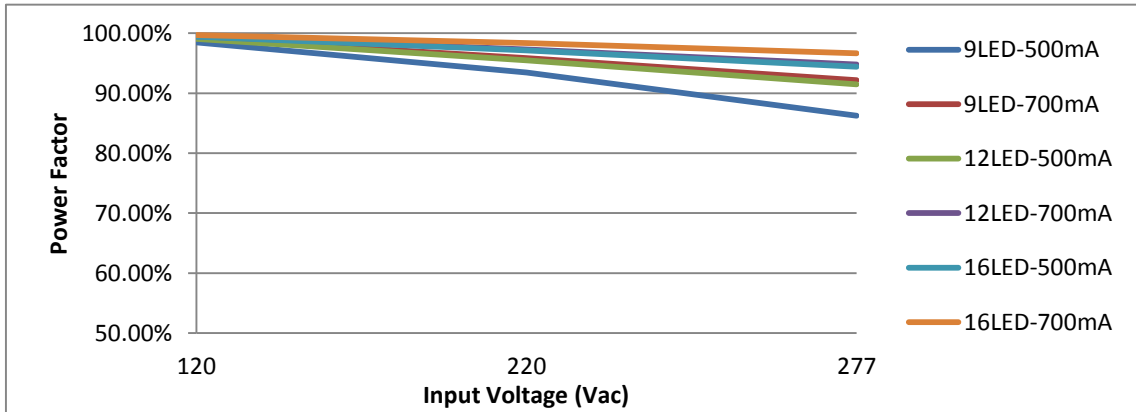
Remark) LED Driver has a rated lifetime of 50,000 hours @ Tc ≤ 65°C

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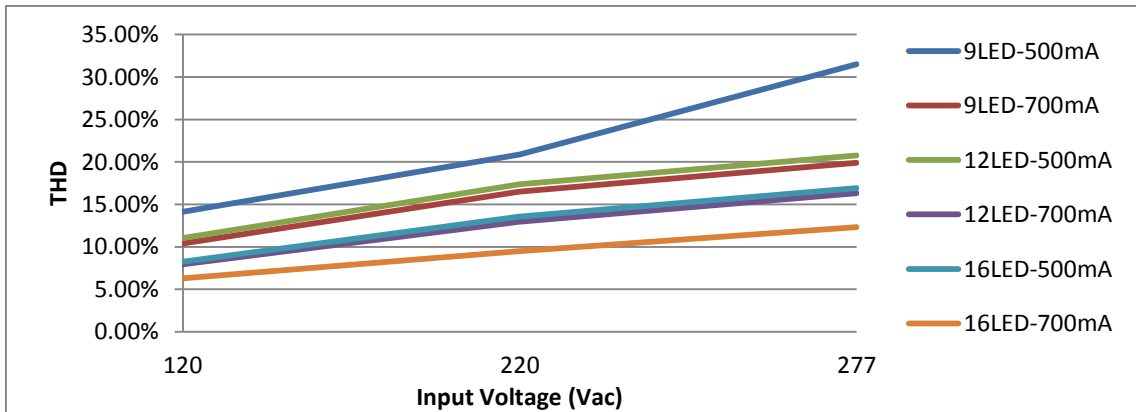
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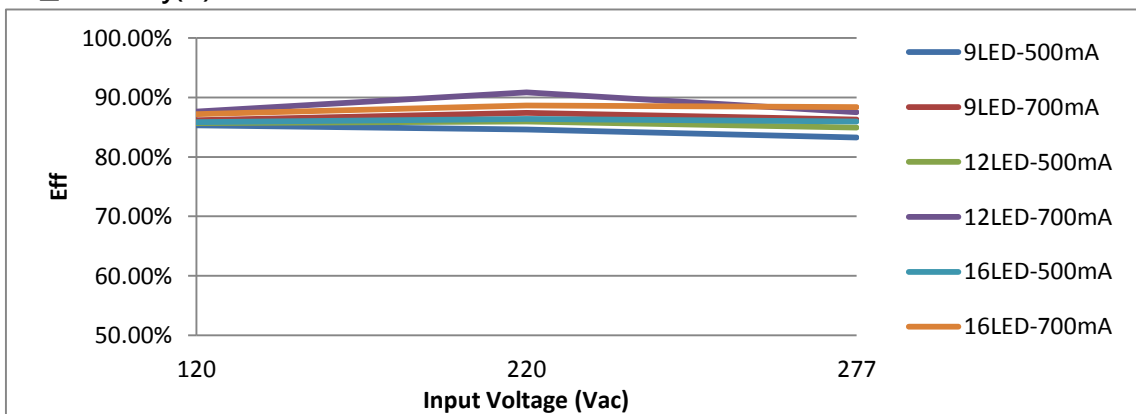
Power Factor



THD(%)



Efficiency(%)

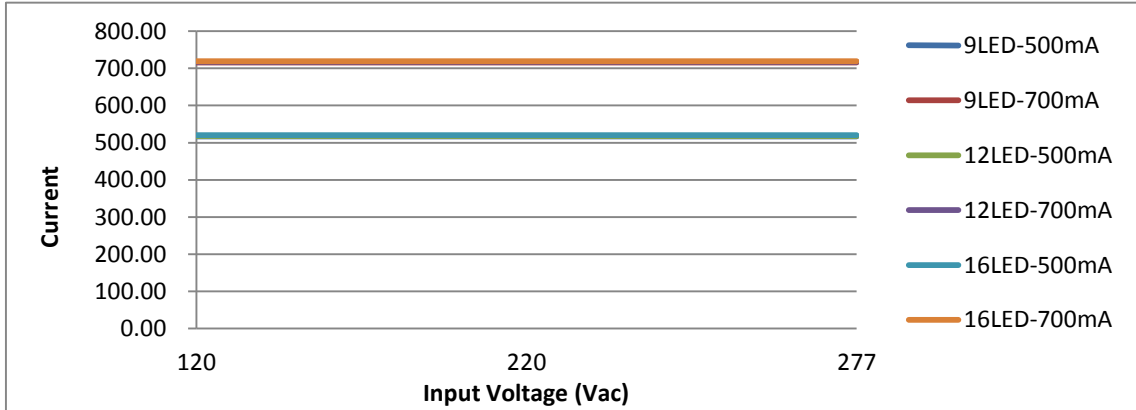


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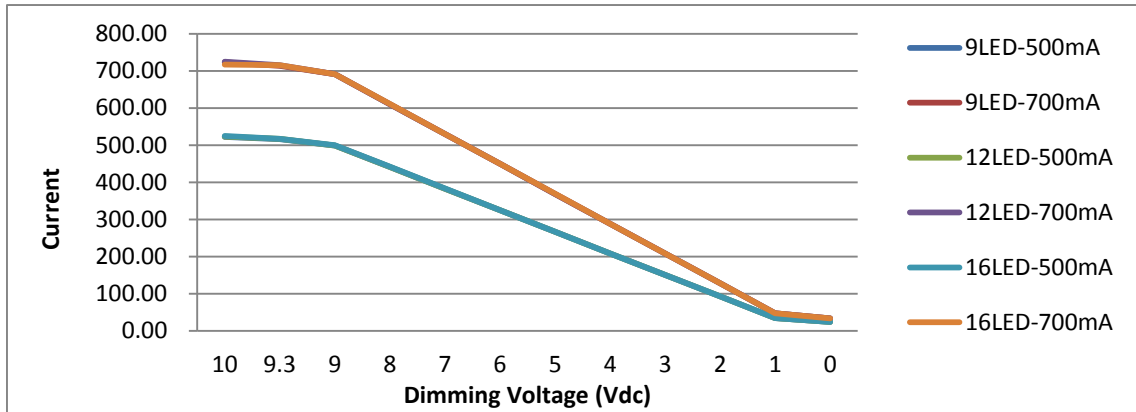
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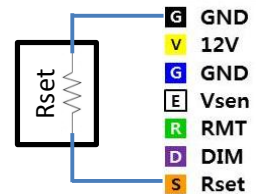
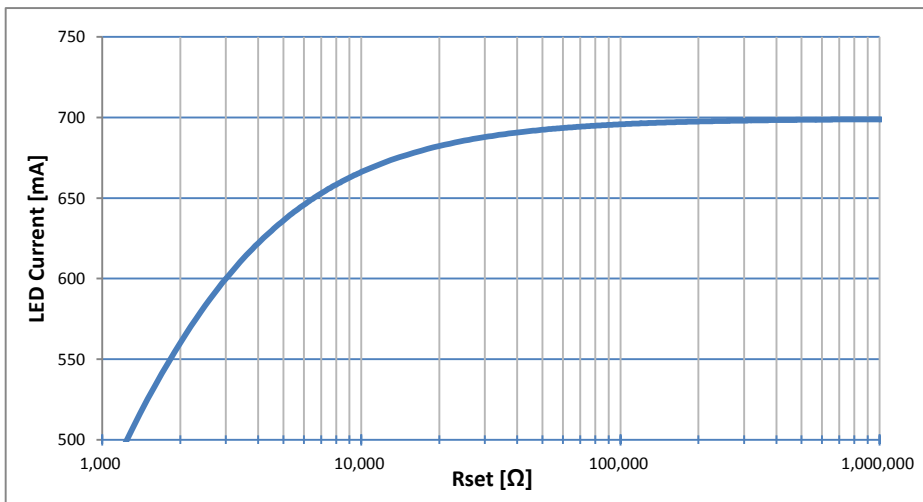
Output Current(mA)



Dimming curve



Adjustable of Current

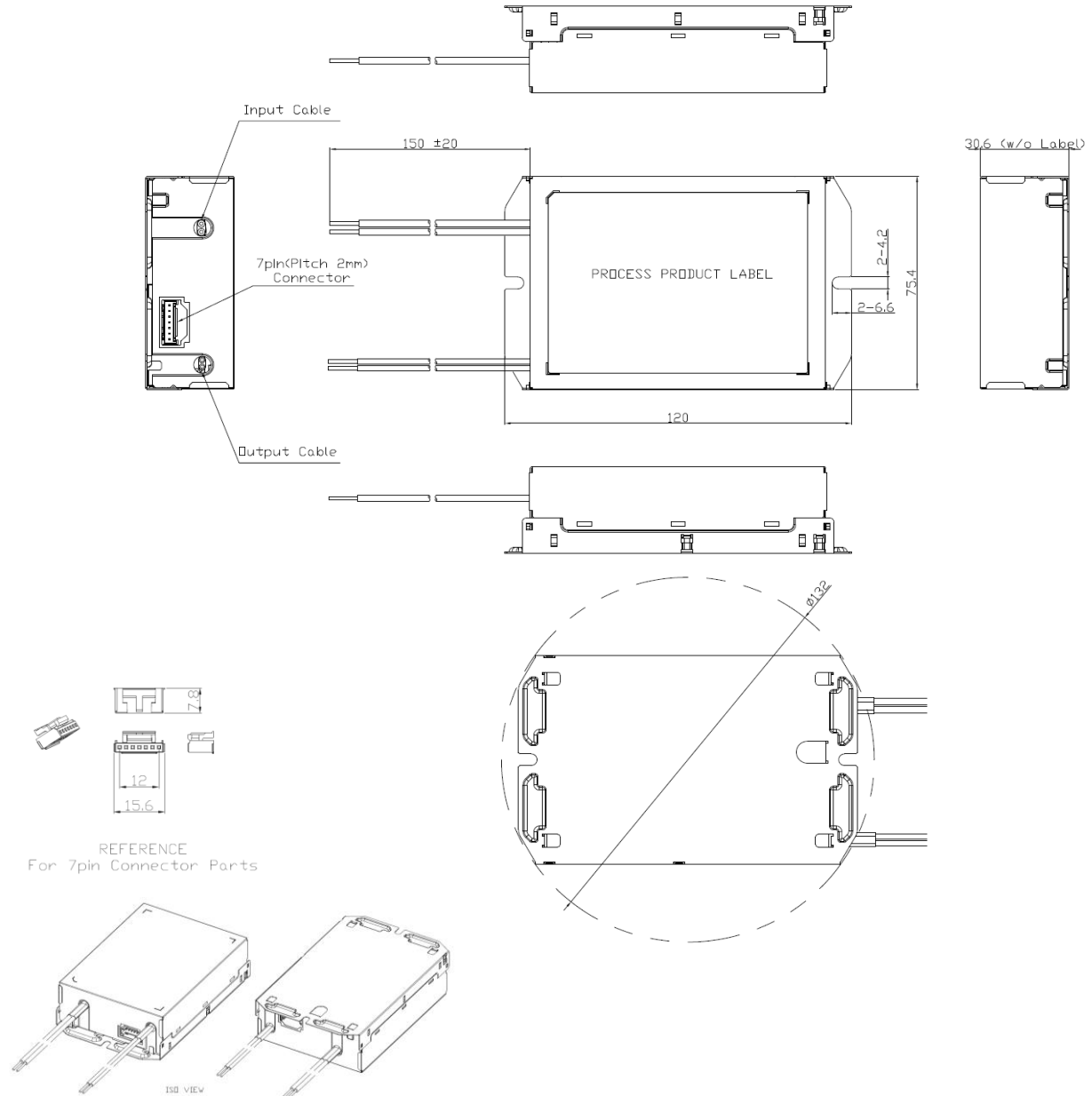


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■ Mechanical Specification



■ Enclosure Size

Unit	Width	Length	Height	Mount Length	Overall Length
mm	120.0	75.4	30.6	75.4	75.4
inch	4.72	2.97	1.20	2.97	2.97

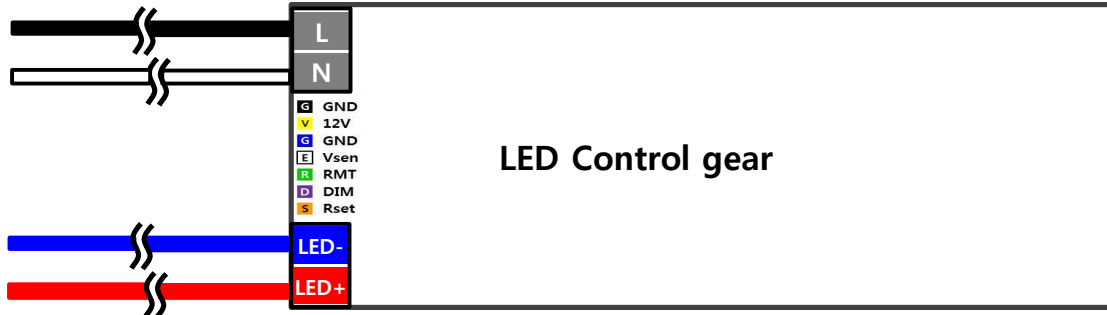
■ Case Material : PC

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■ Wiring Diagram



※ Caution

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

■ Output Connector Specification

Wafer	Housing	Terminal	Wire
SMAW200A-07 YEONHO	SMH200-07 YEONHO	YST200 YENOHO	22~28AWG

Remark) Output wiring specifications may be changed without notification

■ Rating Label Drawing

<p>PRI 정격입력 U_{in} : 110 - 277V~ 50/60 Hz I_{in} : Max. 0.6A 0.33A...220Vac&P_{out} = 35W 0.19A...220Vac&P_{out} = 13W P_{in} : Max. 50W λ_c 역률 : 0.9</p> <p>L LIVE (흑색, Black)</p> <p>N Neutral (백색, White)</p>	<p>LED CONVERTER 조명기구용 컨버터(LED램프용)</p> <p>Model/모델 : ILU400M701U1K Name/기종 : PSDV400701K</p>
<p>CONTROL SIGNAL</p> <p>G GND (Black, 흑색) V 12V (Yellow, 황색) G GND (Blue, 청색) E Vsen (White, 백색) R RMT (Green, 녹색) D DIM (Violet, 자색) S Rset (Orange, 등색)</p> <p>SEC-12V_12V출력 P_{out} : 1.5 W I_{out} : 0.100 A V_{out} : Max. 13.2V</p>	<p>Constant Current (정전류 방식) Flickerless / Unified Dim. Adjustable Output Current_Rset Low Standby Power Consumption Suitable for Class 2 Wiring</p> <p>Caution (주의사항) Suitable for dry and damp location Install in accordance with national and local electrical code. Use for LED Module only Do not open the case</p> <p>ta: -20 - 50°C tc: 80°C tc</p> <p> </p> <p>Hillsite Am Kronberger Hang 8, 65824 Schwalbach Ts. Germany. www.solu-m.com AS: +82-1588-0502 Made in China Dongguan SOLUM Electronics Co., Ltd.</p> <p>SU11315-16021 MSP-REI-SLU-ILU400M701U1K 한국표준협회 제 16-0428호 (KS C 7655)</p>
<p>SEC 정격출력</p> <p>L LED - (청색, Blue) P_{out} : 35 W I_{out} : 0.7A V_{out} : 25 - 50V ≐ U_{out} : 59V ≐ (Open Lamp_무부하)</p> <p>L LED + (적색, Red)</p>	

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Barcode Label

2016-01-01

C 1 1 5 B 1 0 2 5 1 0 0 0 1 REV.A01

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	251	0001.. 9999	X01~99 : DEVELOPMENT A01~99: MP

Box Label

Material Code	ILU400M701U1K		USER Model Code
ITEM	PSDV400701K REV. A**		SOLUM Model Code
LOT No	*****	MAKER	SOLUM LOT NO & Quantity of Products
Quantity [PCS]	30	SOLUM	
EXP. Date	20**.**.** ~ 20**.**.**		Product Date ~ After 5 years
	 000000084B001 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
	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 P→2016 Q→2017 R→2018	01~12月 01~31日		D : DGSM S : Solytech M : IM A : Aptech	

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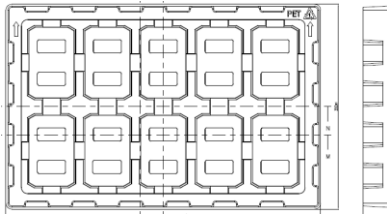
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■ Packing Drawing

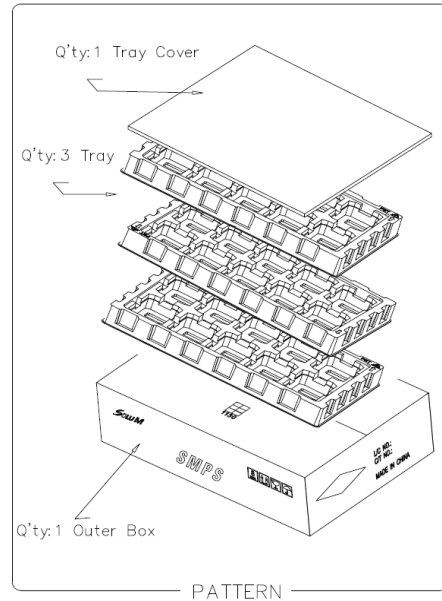
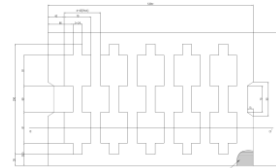
1. Out Box

Dimension	540(L) 355(W) 122(H) [mm]
Weight	< 11Kg
Quantity	30EA / 1Box

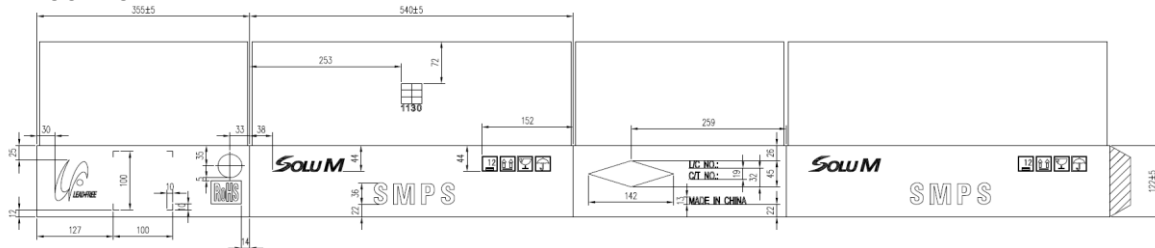
Tray



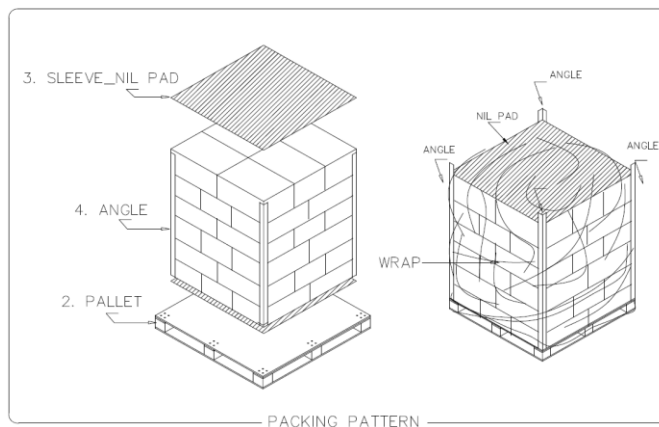
Tray Cover



OUT BOX



2. Pallet



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