

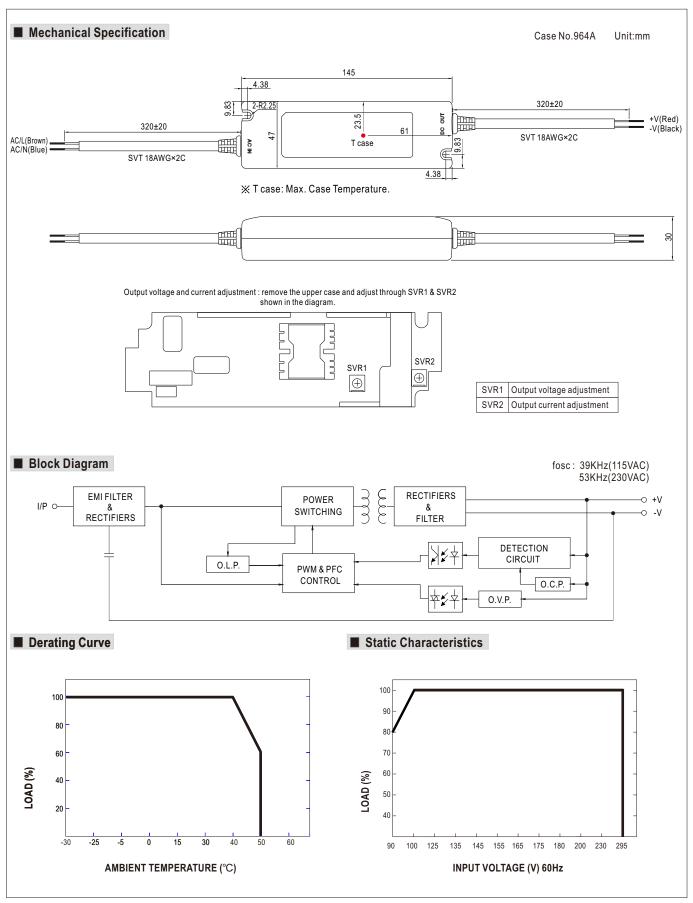


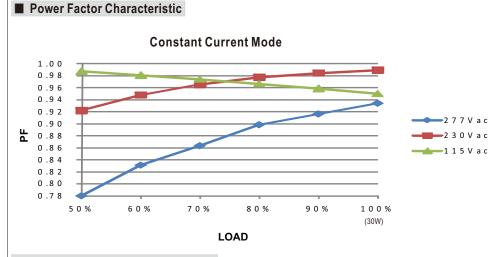
■ Features :

- Universal AC input / Full range (up to 295VAC)
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit with adjustable OCP level
- Fully isolated plastic case with IP64 level
- Built-in active PFC function
- Pass LPS
- Class Ⅱ power unit, no FG
- Class 2 power unit
- 100% full load burn-in test
- High reliability
- Suitable for LED lighting and moving sign applications (Note.2)
- Compliance to worldwide safety regulations for lighting
- 2 years warranty



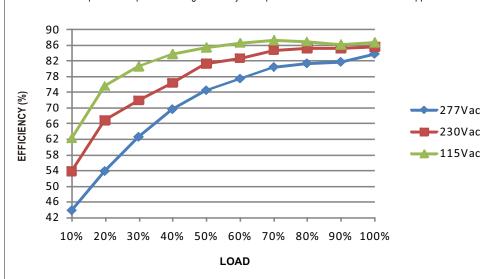
C VOLTAGE ONSTANT CURRENT REGION Note.6 PATED CURRENT CURRENT RANGE CATED POWER CURRENT RANGE NOTE.5 CURRENT ADJ. RANGE NOTE.5 CURRENT ADJ. RANGE NOTE.5 CURRENT ADJ. RANGE NOTE.3 INE REGULATION OAD REGULATION OAD REGULATION CUTAGE RANGE NOTE.4 REQUENCY RANGE OWER FACTOR (Typ.) OTAL HARMONIC DISTORTION OFFICIENCY (Typ.) CC CURRENT (Typ.) URUSH CURRENT (Typ.) IAX. No. of PSUs on 16A CIRCUIT BREAKER EAKAGE CURRENT	3.3A 0 ~ 3.3A 29.7W 2.6Vp-p -5% ~ 10%. Ca 3% ~ -25%. Ca ±10% ±3.0% ±5.0% 500ms / 230VA 90 ~ 295VAC 47 ~ 63Hz PF>0.95/115VA THD< 20% wh 80% 0.4A/115VAC COLD START	an be adjusted b AC 3000ms / 1: 127 ~ 417V AC, PF>0.9/230 en output loadi 82.5% 0.2A/230\ 35A(twidth=25µ	15VAC at full load DC VAC, PF>0.9/23 ng≧75% at 115 83.5% /AC 0.15A	atiometer SVR2	•	27V 18.9 ~ 27V 1.12A 0 ~ 1.12A 30.24W 2.3Vp-p o "Power Factor loading≧80% at 84.5%		48V 33.6 ~ 48V 0.63A 0 ~ 0.63A 30.24W 3.7Vp-p		
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INE REGULATION OAD REGULATION ETUP TIME OLTAGE RANGE Note.4 REQUENCY RANGE OWER FACTOR (Typ.) OTAL HARMONIC DISTORTION FFICIENCY (Typ.) IC CURRENT (Typ.) NRUSH CURRENT (Typ.) IAX. No. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT	±3.0% ±5.0% 500ms / 230VA 90 ~ 295VAC 47 ~ 63Hz PF>0.95/115VA THD< 20% wh 80% 0.4A/115VAC COLD START 64 units (circui	127 ~ 417V AC, PF>0.9/230 en output loadi 82.5% 0.2A/230V 35A(twidth=25µ	DC VAC, PF>0.9/27 ng≧75% at 115 83.5% /AC 0.15A	77VAC at full loa VAC/230VAC ir 84%	put and output I	loading≧80% at	277VAC input	,		
OAD REGULATION ETUP TIME OLTAGE RANGE Note.4 REQUENCY RANGE OWER FACTOR (Typ.) OTAL HARMONIC DISTORTION FFICIENCY (Typ.) IC CURRENT (Typ.) NRUSH CURRENT (Typ.) IAX. No. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT	±5.0% 500ms / 230VA 90 ~ 295VAC 47 ~ 63Hz PF>0.95/115VA THD< 20% wh 80% 0.4A/115VAC COLD START 64 units (circui	127 ~ 417V AC, PF>0.9/230 en output loadi 82.5% 0.2A/230V 35A(twidth=25µ	DC VAC, PF>0.9/27 ng≧75% at 115 83.5% /AC 0.15A	77VAC at full loa VAC/230VAC ir 84%	put and output I	loading≧80% at	277VAC input	,		
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OLTAGE RANGE Note.4 REQUENCY RANGE OWER FACTOR (Typ.) OTAL HARMONIC DISTORTION FFICIENCY (Typ.) IC CURRENT (Typ.) NRUSH CURRENT (Typ.) IAX. No. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT	90 ~ 295VAC 47 ~ 63Hz PF>0.95/115V/ THD< 20% wh 80% 0.4A/115VAC COLD START 64 units (circui	127 ~ 417V AC, PF>0.9/230 en output loadi 82.5% 0.2A/230\ 35A(twidth=25µ	DC VAC, PF>0.9/27 ng≧75% at 115 83.5% /AC 0.15A	77VAC at full loa VAC/230VAC ir 84%	put and output I	loading≧80% at	277VAC input	,		
REQUENCY RANGE OWER FACTOR (Typ.) OTAL HARMONIC DISTORTION OFFICIENCY (Typ.) IC CURRENT (Typ.) INRUSH CURRENT (Typ.) IAX. No. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT	47 ~ 63Hz PF>0.95/115VA THD< 20% wh 80% 0.4A/115VAC COLD START 64 units (circui	AC, PF>0.9/230 en output loadi 82.5% 0.2A/230\ 35A(twidth=25µ	VAC, PF>0.9/27 ng≧75% at 115 83.5% /AC 0.15	VAC/230VAC ir 84%	put and output I	loading≧80% at	277VAC input	,		
OWER FACTOR (Typ.) OTAL HARMONIC DISTORTION OFFICIENCY (Typ.) IC CURRENT (Typ.) NRUSH CURRENT (Typ.) IAX. No. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT	PF>0.95/115VA THD< 20% wh 80% 0.4A/115VAC COLD START 64 units (circui	AC, PF>0.9/230 en output loadi 82.5% 0.2A/230\ 35A(twidth=25µ	VAC, PF>0.9/27 ng≧75% at 115 83.5% /AC 0.15	VAC/230VAC ir 84%	put and output I	loading≧80% at	277VAC input	,		
OWER FACTOR (Typ.) OTAL HARMONIC DISTORTION OFFICIENCY (Typ.) IC CURRENT (Typ.) NRUSH CURRENT (Typ.) IAX. No. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT	PF>0.95/115VA THD< 20% wh 80% 0.4A/115VAC COLD START 64 units (circui	en output loadi 82.5% 0.2A/230\ 35A(twidth=25µ	ng≧75% at 115 83.5% /AC 0.15 <i>A</i>	VAC/230VAC ir 84%	put and output I	loading≧80% at	277VAC input	,		
OTAL HARMONIC DISTORTION OFFICIENCY (Typ.) OC CURRENT (Typ.) NRUSH CURRENT (Typ.) NAX. No. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT	THD< 20% wh 80% 0.4A/115VAC COLD START 64 units (circui	en output loadi 82.5% 0.2A/230\ 35A(twidth=25µ	ng≧75% at 115 83.5% /AC 0.15 <i>A</i>	VAC/230VAC ir 84%	put and output I	loading≧80% at	277VAC input	,		
FFICIENCY (Typ.) C CURRENT (Typ.) NRUSH CURRENT (Typ.) IAX. No. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT	80% 0.4A/115VAC COLD START 64 units (circui	82.5% 0.2A/230\ 35A(twidth=25 _µ	83.5% /AC 0.15 <i>A</i>	84%				0E E0/		
C CURRENT (Typ.) NRUSH CURRENT (Typ.) IAX. No. of PSUs on 16A CIRCUIT BREAKER EAKAGE CURRENT	COLD START 64 units (circui	35A(twidth=25µ		N/277VAC			85%	00.0%		
NRUSH CURRENT (Typ.) 1AX. No. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT	COLD START 64 units (circui	35A(twidth=25µ								
IAX. No. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT	64 units (circui		DLD START 35A(twidth=25µs measured at 50% lpeak) at 230VAC							
ERCUIT BREAKER EAKAGE CURRENT	,	it breaker of type								
	<0.5mA / 240V	64 units (circuit breaker of type B) / 64 units (circuit breaker of type C) at 230VAC								
	-0.01117 t/ 2 10 v	/AC								
VER CURRENT	100~110%									
OVER CURRENT	Protection type: Constant current limiting, recovers automatically after fault condition is removed									
HORT CIRCUIT	,,		,	Ilt condition is re		nation is remov	eu			
HOKT CIRCUIT	10 ~ 14V	14 ~ 17V	17 ~ 22V	23 ~ 26V	27 ~ 34V	31 ~ 35V	40 ~ 50V	53 ~ 63V		
VER VOLTAGE			1	wer on to recove		0. 00.		00 001		
VER TEMPERATURE		voltage, re-po								
VORKING TEMP.		Refer to "Deratin								
VORKING HUMIDITY	`	non-condensing	·							
TORAGE TEMP., HUMIDITY	-40 ~ +80°C, 1									
EMP. COEFFICIENT	±0.06%/°C (0~50°C)									
SAFETY STANDARDS										
			1050017001							
	Compliance to EN55015, EN61000-3-2 Class C (pin≥25W), Class D (>70% load); EN61000-3-3;GB17743 and GB17625.1,EAC TP TC (
-				55024, EN6154	7, light industry le	evel, criteria B;E	EAC IP IC 020			
ITBF			217F (25°C)							
IMENSION	145*47*30mm (L*W*H)									
ACKING										
. Ripple & noise are measured. Tolerance: includes set up to Derating may be needed und Output voltage can be adjusted. Please refer to "DRIVING M	d at 20MHz of to tolerance, line reduced through the ETHODS OF Leared as a compeal equipment mass suggested, but	bandwidth by u egulation and lo bitage. Please o SVR1 on the I ED MODULE". onent that will b anufacturers m t is not suitable	sing a 12" twist pad regulation. check the static PCB; limit of out pe operated in a ust re-qualify E for using addit	ted pair-wire ter characteristics atput constant co combination with MC Directive or ional drivers.	minated with a (for more details urrent level can h final equipmer n the complete in	0.1 uf & 47 uf pards. be adjusted throught. Since EMC propostallation again	ough the SVR2 of the stormance will be a control of	oe affected by th		
AI M	RATION FETY STANDARDS THSTAND VOLTAGE PLATION RESISTANCE C EMISSION C IMMUNITY BF IENSION CKING All parameters NOT speciall alipple & noise are measure folerance: includes set up in Derating may be needed un Dutput voltage can be adjusted to "DRIVING MITTE PLEASE FOR THE POWER SUPPLY STANDARD STANDA	RATION 10 ~ 500Hz, 2: FETY STANDARDS UL879, UL13* CAN/CSA C22* CHSTAND VOLTAGE I/P-O/P:3.75k PLATION RESISTANCE I/P-O/P:100M CEMISSION Compliance to CEMISSION Compliance to CIMMUNITY Compliance to 145*47*30mm CKING 0.22Kg; 60pcs All parameters NOT specially mentioned ar Ripple & noise are measured at 20MHz of Tolerance: includes set up tolerance, line r Derating may be needed under low input vo Dutput voltage can be adjusted through the Please refer to "DRIVING METHODS OF The power supply is considered as a comp complete installation, the final equipment m Direct connecting to LEDs is suggested, bu To fulfill requirements of the latest ErP regu-	RATION 10 ~ 500Hz, 2G 12min./1cycle FETY STANDARDS UL879, UL1310, CSA C22.2 I CAN/CSA C22.2 No.223-M91 THSTAND VOLTAGE I/P-O/P:3.75KVAC FLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC CEMISSION Compliance to EN55015, EN610 CIMMUNITY Compliance to EN61000-4-2,3 BF 621.4Khrs min. MIL-HDBK- TENSION 145*47*30mm (L*W*H) CKING 0.22Kg; 60pcs/14.2Kg/1.25CU All parameters NOT specially mentioned are measured at Ripple & noise are measured at 20MHz of bandwidth by u Tolerance : includes set up tolerance, line regulation and keep the complete installation, the final equipment manufacturers more for fulfill requirements of the latest ErP regulation for lightin connected to the mains.	TRATION 10 ~ 500Hz, 2G 12min./1cycle, period for 72r UL879, UL1310, CSA C22.2 No. 207-M89(e CAN/CSA C22.2 No. 223-M91(except for 48' CHSTAND VOLTAGE I/P-O/P:3.75KVAC I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% R CEMISSION Compliance to EN61000-4-2,3,4,5,6,8,11, EN EF 621.4Khrs min. MIL-HDBK-217F (25°C) IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN ENSION 145*47*30mm (L*W*H) CKING 0.22Kg; 60pcs/14.2Kg/1.25CUFT All parameters NOT specially mentioned are measured at 230VAC input, Ripple & noise are measured at 20MHz of bandwidth by using a 12" twis rolerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltage. Please check the static Dutput voltage can be adjusted through the SVR1 on the PCB; limit of our Please refer to "DRIVING METHODS OF LED MODULE". The power supply is considered as a component that will be operated in a complete installation, the final equipment manufacturers must re-qualify Edirect connecting to LEDs is suggested, but is not suitable for using addit for fulfill requirements of the latest ErP regulation for lighting fixtures, this connected to the mains.	TETY STANDARDS CAN/CSA C22.2 No. 207-M89 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 227-M89 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 227-M89 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except for 48V), EAC TPTC OF CAN/CSA C22.2 No. 223-M91 (except 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(except for 48V), EAC TPTC OF CAN/CSA C22	INTERPORT IN THE PROPERTY STANDARDS TETY STANDARDS UL879, UL1310, CSA C22.2 No. 207-M89(except for 48V), TUV EN61347-CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA CAN/CSA CAN/CSA CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J6134 CAN/CSA CA	TETY STANDARDS CAN/CSA C22.2 No. 207-M89(except for 48V), TUV EN61347-1, EN61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-1, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-1, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-1, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-1, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-1, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-1, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-1, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-1, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-1, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, P64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, IP64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, IP64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, IP64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, IP64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, IP64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, IP64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, IP64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, IP64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, IP64, J61347-2-1: CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TPTC 004, IP64, J61347-2-1: CAN/CS	TETY STANDARDS TETY STANDARDS UL 879, UL 1310, CSA C22.2 No. 207-M89(except for 48V), TUV EN61347-1, EN61347-2-13, GB19510.1, GB CAN/CSA C22.2 No. 223-M91(except for 48V), EAC TP TC 004, IP64, J61347-1, J61347-2-13 approved (I/P-O/P:3.75KVAC) ILATION RESISTANCE I/P-O/P:3.75KVAC I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH C EMISSION C compliance to EN55015, EN61000-3-2 Class C (pin≥25W), Class D (>70% load); EN61000-3-3;GB17743 and GB176; C IMMUNITY C compliance to EN65000-4-2,3,4,5,6,8,11, EN55024, EN61547, light industry level, criteria B;EAC TP TC 020 BF 621.4Khrs min. MIL-HDBK-217F (25°C) IENSION 145°47°30mm (L*W*H) CKING 0.22Kg; 60pcs/14.2Kg/1.25CUFT All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Piople & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Floerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltage. Please check the static characteristics for more details. Dutput voltage can be adjusted through the SVR1 on the PCB; limit of output constant current level can be adjusted through the SVR2 o Please refer to "DRIVING METHODS OF LED MODULE". The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. For fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without perconnected to the mains.		





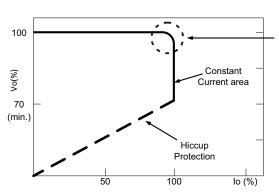
■ EFFICIENCY vs LOAD (48V Model)

PLN-30 series possess superior working efficiency that up to 85.5% can be reached in field applications.



■ DRIVING METHODS OF LED MODULE

This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.



Typical LED power supply I-V curve

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

File Name:PLN-30-SPEC 2018-06-07