

**SPECIFICATION** 



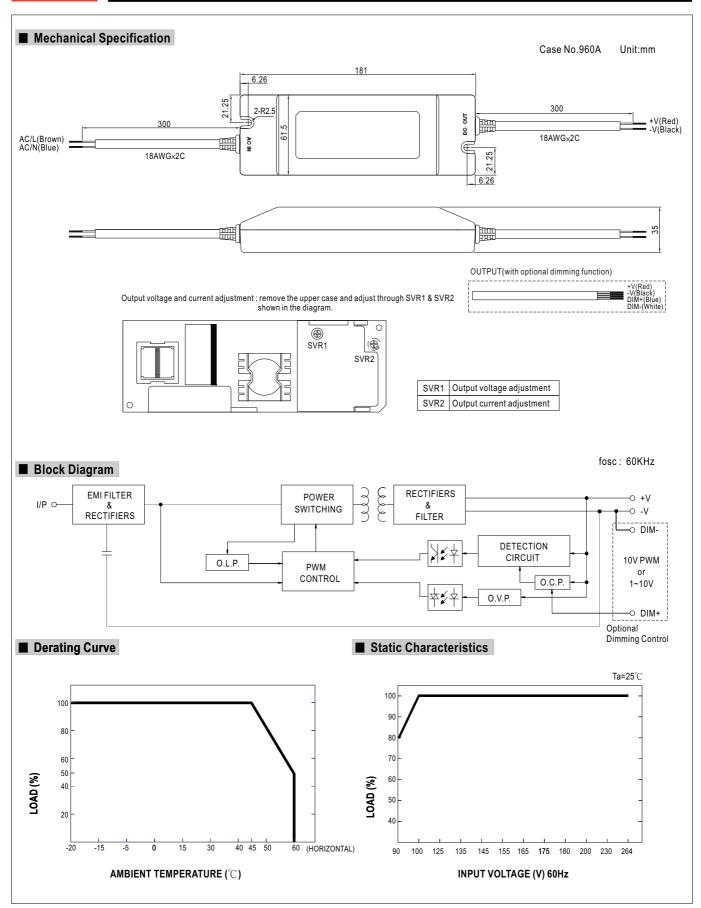
## Features:

- Universal AC input / Full range
- Built-in constant current limiting circuit with adjustable OCP level
- Protections: Short circuit / Overload / Over voltage
- Fully isolated plastic case with IP64 level
- IP64 design for indoor or outdoor installations
- Optional dimming function : 1~10VDC(D type) or PWM controlled(P type)
- UL1310 Class 2 power unit
- Cooling by free air convection
- 100% full load burn-in test
- · Low cost, high reliability
- Suitable for LED lighting and moving sign applications
- 2 years warranty



VOLTAGE D OPERATION VOLTAGE Note.8 TED CURRENT RRENT RANGE TED POWER PLE & NOISE (max.) Note.2 LTAGE ADJ. RANGE Note.7 RRENT ADJ. RANGE Note.7 LTAGE TOLERANCE Note.3 IE REGULATION AD REGULATION TUP, RISE TIME Note.6 LD UP TIME (Typ.) LTAGE RANGE Note.5 EQUENCY RANGE FICIENCY (Typ.) CURRENT (Typ.) RUSH CURRENT(max.) AKAGE CURRENT	5A 0 ~ 5A 45W 120mVp-p 8.7 ~ 10.5V Can be adjusted by -25% ~ 3%. Can be ±5.0% ±1.0% ±2.0% 500ms, 30ms / 230V 50ms/230VAC 90 ~ 264VAC 47 ~ 63Hz 82% 1.2A/115VAC 0.7	adjusted by internal	potential meter SVR:		27V 13.5 ~ 27V 2.3A 0 ~ 2.3A 62.1W 200mVp-p 24.3 ~ 29.7V	48V 24 ~ 48V 1.3A 0 ~ 1.3A 62.5W 250mVp-p 43.2 ~ 52.8V			
TED CURRENT  RRENT RANGE  TED POWER PPLE & NOISE (max.) Note.2  LTAGE ADJ. RANGE Note.7  RRENT ADJ. RANGE Note.7  LTAGE TOLERANCE Note.3  IE REGULATION  TUP, RISE TIME Note.6  LD UP TIME (Typ.)  LTAGE RANGE Note.5  EQUENCY RANGE  FICIENCY (Typ.)  CURRENT (Typ.)	5A 0 ~ 5A 45W 120mVp-p 8.7 ~ 10.5V Can be adjusted by -25% ~ 3%. Can be ±5.0% ±1.0% ±2.0% 500ms, 30ms / 230V 50ms/230VAC 90 ~ 264VAC 47 ~ 63Hz 82% 1.2A/115VAC 0.7	5A 0 ~ 5A 60W 120mVp-p 10.8 ~ 13.2V internal potential me adjusted by internal /AC 1500ms, 30ms 16ms/115VAC at ful	4A 0 ~ 4A 60W 150mVp-p 13.5 ~ 16.5V ter SVR1 potential meter SVR:	2.5A 0~2.5A 60W 150mVp-p 21.6~26.4V	2.3A 0 ~ 2.3A 62.1W 200mVp-p	1.3A 0 ~ 1.3A 62.5W 250mVp-p			
RRENT RANGE TED POWER PLE & NOISE (max.) Note.2 LTAGE ADJ. RANGE Note.7 RRENT ADJ. RANGE Note.7 LTAGE TOLERANCE Note.3 IE REGULATION TUP, RISE TIME Note.6 LD UP TIME (Typ.) LTAGE RANGE Note.5 EQUENCY RANGE FICIENCY (Typ.) CURRENT (Typ.)	0~5A 45W 120mVp-p 8.7~10.5V Can be adjusted by -25%~3%. Can be ±5.0% ±1.0% ±2.0% 500ms, 30ms / 230V 50ms/230VAC 90~264VAC 47~63Hz 82% 1.2A/115VAC 0.7	0 ~ 5A 60W 120mVp-p 10.8 ~ 13.2V internal potential me adjusted by internal /AC 1500ms, 30ms 16ms/115VAC at ful	0 ~ 4A 60W 150mVp-p 13.5 ~ 16.5V ter SVR1 potential meter SVR:	0 ~ 2.5A 60W 150mVp-p 21.6 ~ 26.4V	0 ~ 2.3A 62.1W 200mVp-p	0 ~ 1.3A 62.5W 250mVp-p			
TED POWER PLE & NOISE (max.) Note.2 LTAGE ADJ. RANGE Note.7 RRENT ADJ. RANGE Note.7 LTAGE TOLERANCE Note.3 IE REGULATION AD REGULATION TUP, RISE TIME Note.6 LD UP TIME (Typ.) LTAGE RANGE Note.5 EQUENCY RANGE FICIENCY (Typ.) CURRENT (Typ.)	45W 120mVp-p 8.7 ~ 10.5V Can be adjusted by -25% ~ 3%. Can be ±5.0% ±1.0% ±2.0% 500ms, 30ms / 230V 50ms/230VAC 90 ~ 264VAC 47 ~ 63Hz 82% 1.2A/115VAC 0.7	60W 120mVp-p 10.8 ~ 13.2V internal potential meadjusted by internal /AC 1500ms, 30ms 16ms/115VAC at ful	60W 150mVp-p 13.5 ~ 16.5V ter SVR1 potential meter SVR:	60W 150mVp-p 21.6 ~ 26.4V	62.1W 200mVp-p	62.5W 250mVp-p			
PLE & NOISE (max.) Note.2 LTAGE ADJ. RANGE Note.7 RRENT ADJ. RANGE Note.7 LTAGE TOLERANCE Note.3 IE REGULATION AD REGULATION TUP, RISE TIME Note.6 LD UP TIME (Typ.) LTAGE RANGE Note.5 EQUENCY RANGE FICIENCY (Typ.) CURRENT (Typ.)	120mVp-p 8.7 ~ 10.5V Can be adjusted by -25% ~ 3%. Can be ±5.0% ±1.0% ±2.0% 500ms, 30ms / 230V 50ms/230VAC 90 ~ 264VAC 47 ~ 63Hz 82% 1.2A/115VAC 0.7	120mVp-p 10.8 ~ 13.2V internal potential me adjusted by internal /AC 1500ms, 30ms 16ms/115VAC at ful	150mVp-p 13.5 ~ 16.5V ster SVR1 potential meter SVR2	150mVp-p 21.6 ~ 26.4V	200mVp-p	250mVp-p			
RRENT ADJ. RANGE Note.7 RRENT ADJ. RANGE Note.7 LTAGE TOLERANCE Note.3 E REGULATION AD REGULATION TUP, RISE TIME Note.6 LD UP TIME (Typ.) LTAGE RANGE Note.5 EQUENCY RANGE FICIENCY (Typ.) CURRENT (Typ.)	8.7 ~ 10.5V  Can be adjusted by -25% ~ 3%. Can be ±5.0% ±1.0% ±2.0% 500ms, 30ms / 230V 50ms/230VAC 90 ~ 264VAC 47 ~ 63Hz 82% 1.2A/115VAC 0.7	10.8 ~ 13.2V internal potential me adjusted by internal /AC 1500ms, 30ms 16ms/115VAC at ful	13.5 ~ 16.5V ter SVR1 potential meter SVR	21.6 ~ 26.4V					
RRENT ADJ. RANGE Note.7 LTAGE TOLERANCE Note.3 IE REGULATION AD REGULATION TUP, RISE TIME Note.6 LD UP TIME (Typ.) LTAGE RANGE Note.5 EQUENCY RANGE FICIENCY (Typ.) CURRENT (Typ.)	Can be adjusted by -25% ~ 3%. Can be ±5.0% ±1.0% ±2.0% 500ms, 30ms / 230V 50ms/230VAC 90 ~ 264VAC 47 ~ 63Hz 82% 1.2A/115VAC 0.7	internal potential me adjusted by internal /AC 1500ms, 30ms 16ms/115VAC at ful	ter SVR1 potential meter SVR	2	24.3 ~ 29.7V	43.2 ~ 52.8V			
RRENT ADJ. RANGE Note.7 LTAGE TOLERANCE Note.3 IE REGULATION AD REGULATION TUP, RISE TIME Note.6 LD UP TIME (Typ.) LTAGE RANGE Note.5 EQUENCY RANGE FICIENCY (Typ.) CURRENT (Typ.)	-25% ~ 3%. Can be ±5.0% ±1.0% ±2.0% 500ms, 30ms / 230V 50ms/230VAC 90 ~ 264VAC 47 ~ 63Hz 82% 1.2A/115VAC 0.7	adjusted by internal  /AC 1500ms, 30ms 16ms/115VAC at ful	potential meter SVR:						
LTAGE TOLERANCE Note.3 IE REGULATION AD REGULATION TUP, RISE TIME Note.6 LD UP TIME (Typ.) LTAGE RANGE Note.5 EQUENCY RANGE FICIENCY (Typ.) CURRENT (Typ.)	±5.0% ±1.0% ±2.0% 500ms, 30ms / 230V 50ms/230VAC 90 ~ 264VAC 47 ~ 63Hz 82% 1.2A/115VAC 0.7	/AC 1500ms, 30ms 16ms/115VAC at ful	s / 115VAC at full load						
E REGULATION  AD REGULATION  TUP, RISE TIME Note.6  LD UP TIME (Typ.)  LTAGE RANGE Note.5  EQUENCY RANGE  FICIENCY (Typ.)  CURRENT (Typ.)  RUSH CURRENT(max.)	±1.0% ±2.0% 500ms, 30ms / 230V 50ms/230VAC 90 ~ 264VAC 47 ~ 63Hz 82% 1.2A/115VAC 0.7	16ms/115VAC at ful		1					
AD REGULATION TUP, RISE TIME Note.6 LD UP TIME (Typ.) LTAGE RANGE Note.5 EQUENCY RANGE FICIENCY (Typ.) CURRENT (Typ.)	±2.0% 500ms, 30ms / 230V 50ms/230VAC 90 ~ 264VAC 47 ~ 63Hz 82% 1.2A/115VAC 0.7	16ms/115VAC at ful		1					
TUP, RISE TIME Note.6 LD UP TIME (Typ.)  LTAGE RANGE Note.5  EQUENCY RANGE  FICIENCY (Typ.)  CURRENT (Typ.)  RUSH CURRENT(max.)	500ms, 30ms / 230V 50ms/230VAC 90 ~ 264VAC 47 ~ 63Hz 82% 1.2A/115VAC 0.7	16ms/115VAC at ful		i					
LD UP TIME (Typ.)  LTAGE RANGE Note.5  EQUENCY RANGE  FICIENCY (Typ.)  CURRENT (Typ.)  RUSH CURRENT(max.)	50ms/230VAC 90 ~ 264VAC 47 ~ 63Hz 82% 1.2A/115VAC 0.7	16ms/115VAC at ful		1					
LTAGE RANGE Note.5 EQUENCY RANGE FICIENCY (Typ.) CURRENT (Typ.) RUSH CURRENT(max.)	90 ~ 264VAC 47 ~ 63Hz 82% 1.2A/115VAC 0.7		lload						
EQUENCY RANGE FICIENCY (Typ.) CURRENT (Typ.) RUSH CURRENT(max.)	47 ~ 63Hz 82% 1.2A/115VAC 0.7	85%							
FICIENCY (Typ.) CURRENT (Typ.) RUSH CURRENT(max.)	82% 1.2A/115VAC 0.7	85%							
CURRENT (Typ.) RUSH CURRENT(max.)	1.2A/115VAC 0.7	85%		47 ~ 63Hz					
CURRENT (Typ.) RUSH CURRENT(max.)			86%	87%	87%	88%			
RUSH CURRENT(max.)		A/230VAC	1 2 2 1 1	1 2 1 10	1				
, ,	COLD START 60A/230VAC								
WO COLUMN	0.25mA / 240VAC								
	95 ~ 110% 130% max.								
OVER CURRENT	Protection type: Constant current limiting, recovers automatically after fault condition is removed								
	11 ~ 13.5V	13.8 ~ 16V	17.5 ~ 21V	28 ~ 32V	31 ~ 35V	54 ~ 60V			
ER VOLTAGE			re-power on to recov		31~330	54 ~ 00 V			
IMING CONTROL (OPTIONAL)	1 ~ 10VDC or PWM	1 0	•	vei					
` '									
PRKING TEMP.	`	to output load derati	ng curve)						
RKING HUMIDITY	20 ~ 90% RH non-co								
ORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH ±0.03%/°C (0 ~ 50°C)								
MP. COEFFICIENT									
RATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
FETY STANDARDS									
THSTAND VOLTAGE									
LATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25℃ / 70% RH								
CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B								
RMONIC CURRENT	Compliance to EN61000-3-2,-3								
S IMMUNITY	Compliance to EN6	1000-4-2,3,4,5,6,8,1	1; ENV50204, EN55	024, light industry lev	rel, criteria A				
BF	603Khrs min. MII	L-HDBK-217F (25°℃	)						
MENSION	181*61.5*35mm (L*W*H)								
CKING	0.4Kg; 24pcs/11Kg/	0.75CUFT							
Ripple & noise are measure Tolerance : includes set up Derating may be needed ur The power supply is consid	ed at 20MHz of band tolerance, line regulander low input voltage lered a component wassured at first cold s	dwidth by using a 12 ation and load regule. Please check the which will be installe attract. Turning ON/OI	" twisted pair-wire t lation. de derating curve for d a final equipment. "Ff the power supply	erminated with a 0.1 more details. The final equipment may lead to increas	uf & 47uf parallel cap t must be re-confirmed se of the set up time.	d that it still meets			
CK All Rip To	STAND VOLTAGE ATION RESISTANCE DIDUCTION & RADIATION IONIC CURRENT MMUNITY  INSION ING I parameters NOT specia pple & noise are measure plerance : includes set up prating may be needed ui ue power supply is consid MC directives. Ingth of set up time is me	ATION RESISTANCE I/P-O/P:>100M Ohn Conduction & RADIATION Compliance to EN5 CONDUCTION & RADIATION Compliance to EN6 MMUNITY Compliance to EN6 603Khrs min. Mil NSION 181*61.5*35mm (L* ING 0.4Kg; 24pcs/11Kg, parameters NOT specially mentioned are me pople & noise are measured at 20MHz of band elerance: includes set up tolerance, line regulariting may be needed under low input voltage the power supply is considered a component work of circetives. Ingth of set up time is measured at first cold supply toltage can be adjusted through the SV	I/P-O/P:3KVAC ATION RESISTANCE I/P-O/P:>100M Ohms / 500VDC / 25°C / ONDUCTION & RADIATION Compliance to EN55022 (CISPR22) Cla MMUNITY Compliance to EN61000-3-2,-3 MMUNITY Compliance to EN61000-4-2,3,4,5,6,8,1 603Khrs min. MIL-HDBK-217F (25°C NSION 181*61.5*35mm (L*W*H) ING 0.4Kg; 24pcs/11Kg/0.75CUFT parameters NOT specially mentioned are measured at 230VAC pple & noise are measured at 20MHz of bandwidth by using a 12 elerance : includes set up tolerance, line regulation and load regulariting may be needed under low input voltage. Please check the le power supply is considered a component which will be installed. MC directives. Ingth of set up time is measured at first cold start. Turning ON/OF utput voltage can be adjusted through the SVR1 on the PCB; lime	ATION RESISTANCE  I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH  CONDUCTION & RADIATION  Compliance to EN55022 (CISPR22) Class B  MMUNITY  Compliance to EN61000-3-2,-3  MMUNITY  Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55  603Khrs min. MIL-HDBK-217F (25°C)  NSION  181*61.5*35mm (L*W*H)  ING  0.4Kg; 24pcs/11Kg/0.75CUFT  parameters NOT specially mentioned are measured at 230VAC input, rated load an opple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire to elerance: includes set up tolerance, line regulation and load regulation. Perating may be needed under low input voltage. Please check the derating curve for the power supply is considered a component which will be installed a final equipment. MC directives.  Ingth of set up time is measured at first cold start. Turning ON/OFF the power supply upput voltage can be adjusted through the SVR1 on the PCB; limit of output constant.	ATION RESISTANCE  I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH  CONDUCTION & RADIATION  Compliance to EN55022 (CISPR22) Class B  CONDIC CURRENT  Compliance to EN61000-3-2,-3  MMUNITY  Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level 603Khrs min.  MIL-HDBK-217F (25°C)  NSION  181*61.5*35mm (L*W*H)  ING  0.4Kg; 24pcs/11Kg/0.75CUFT  parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient to the pole & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 elerance: includes set up tolerance, line regulation and load regulation.  Perating may be needed under low input voltage. Please check the derating curve for more details. The properties of the polerance of the poleranc	STAND VOLTAGE  I/P-O/P:3KVAC  ATION RESISTANCE  I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH  DNDUCTION & RADIATION  Compliance to EN55022 (CISPR22) Class B  IONIC CURRENT  Compliance to EN61000-3-2,-3  MMUNITY  Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A  603Khrs min. MIL-HDBK-217F (25°C)  NSION  181*61.5*35mm (L*W*H)  ING  0.4Kg; 24pcs/11Kg/0.75CUFT  parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  pple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel cap plerance: includes set up tolerance, line regulation and load regulation.  Perating may be needed under low input voltage. Please check the derating curve for more details.  The final equipment must be re-confirmed to the power supply is considered a component which will be installed a final equipment. The final equipment must be re-confirmed.			







## ■ Dimming Control (Optional)

Level of output current can be adjusted through the dimming control function.

When there is no signal sending to the control wires (open circuit between the two control wires), the power supply unit will operate as 0V (D-type) or 0% duty (P-type) of input signal and hence the output current will be zero.

(1)1~10V (D type, &: ELN-60-12D)

