



## Features:

- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage
- Cooling by free air convection
- Built-in constant current limiting circuit with adjustable OCP level
- Optional dimming function: 1~10VDC (D type) or PWM (P type) controlled
- Fully isolated plastic case with IP64 level
- Class II power unit, no FG
- · Class 2 power unit
- Pass I PS
- Suitable for LED lighting and moving sign applications (Note.9)
- 100% full load burn-in test
- · Low cost, high reliability
- · 2 years warranty

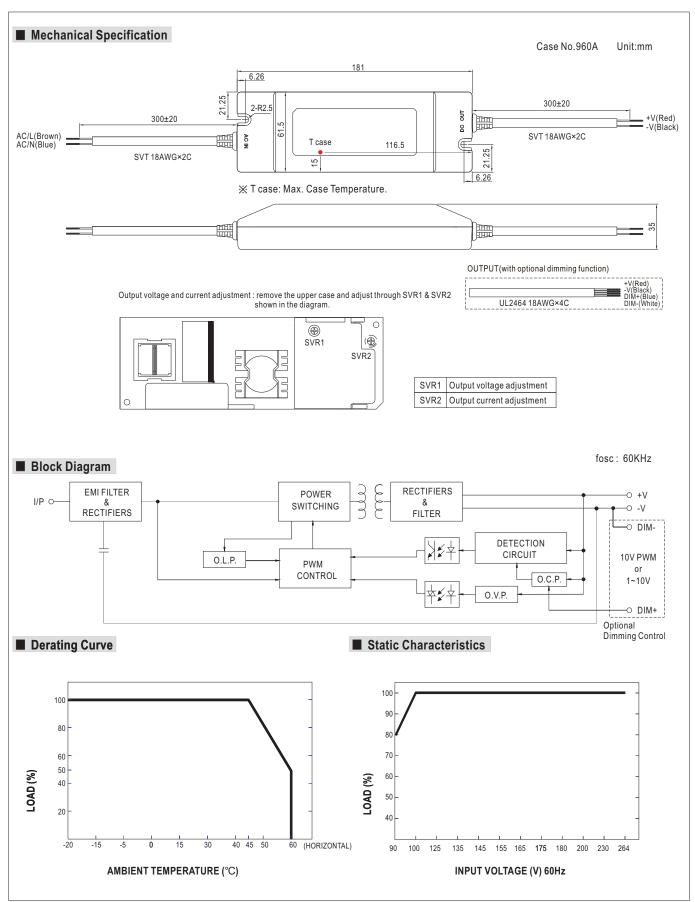
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## □ LPS IP64 **%** (for 48V only) c **%** (except for 48V) C €

OC VOLTAGE ED OPERATION VOLTAGE Note.8 RATED CURRENT	9V	12V	45)/					
		12 V	15V	24V	27V	48V		
RATED CURRENT	3 ~ 9V	6 ~ 12V	7.5 ~ 15V	12 ~ 24V	13.5 ~ 27V	24 ~ 48V		
RATED CURRENT CURRENT RANGE RATED POWER		5A	4A	2.5A	2.3A	1.3A		
		0 ~ 5A	0 ~ 4A	0 ~ 2.5A	0 ~ 2.3A	0 ~ 1.3A		
		60W	60W	60W	62.1W	62.5W		
RIPPLE & NOISE (max.) Note.2	120mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p		
VOLTAGE ADJ. RANGE Note.7	8.7 ~ 10.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	24.3 ~ 29.7V	43.2 ~ 52.8V		
	Can be adjusted by internal potentiometer SVR1							
CURRENT ADJ. RANGE Note.7	-25% ~ 3%. Can be adjusted by internal potentiometer SVR2							
OLTAGE TOLERANCE Note.3	±5.0%							
INE REGULATION	±1.0%							
OAD REGULATION	±2.0%							
ETUP, RISE TIME Note.6	500ms, 30ms / 230VAC 1500ms, 30ms / 115VAC at full load							
IOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load							
OLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC							
REQUENCY RANGE	47 ~ 63Hz							
FFICIENCY (Typ.)	82%	85%	86%	87%	87%	88%		
AC CURRENT (Typ.)	1.2A/115VAC 0.7A/230VAC							
NRUSH CURRENT (Typ.)	COLD START 60A(twidth=600µs measured at 50% Ipeak) at 230VAC							
MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 5 units (circuit breaker of type C) at 230VAC							
EAKAGE CURRENT	0.25mA / 240VAC							
	95 ~ 110%							
OVER CURRENT								
OVER VOLTAGE	11 ~ 13.5V	13.8 ~ 16V		28 ~ 32V	31 ~ 37V	54 ~ 60V		
	Protection type :	Shut down o/p voltag		over	-			
IMMING CONTROL (OPTIONAL)	1 ~ 10VDC or PWM signal : 100Hz ~ 3KHz							
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	ETUP, RISE TIME Note.6 OLD UP TIME (Typ.) OLTAGE RANGE Note.4 REQUENCY RANGE FFICIENCY (Typ.) C CURRENT (Typ.) IRUSH CURRENT (Typ.) IAX. No. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT VER CURRENT VER CURRENT VER CURRENT IMMING CONTROL (OPTIONAL) IORKING TEMP. IORKING HUMIDITY TORAGE TEMP., HUMIDITY EMP. COEFFICIENT IBRATION AFETY STANDARDS ITHSTAND VOLTAGE SOLATION RESISTANCE MC EMISSION MC IMMUNITY TBF IMENSION ACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Derating may be needed ur	### ETUP, RISE TIME Note.6   500ms, 30ms / 23    OLD UP TIME (Typ.)   50ms/230VAC    OLTAGE RANGE Note.4   90 ~ 264VAC    REQUENCY RANGE   47 ~ 63Hz    FFICIENCY (Typ.)   82%    C CURRENT (Typ.)   1.2A/115VAC    IRUSH CURRENT (Typ.)   COLD START 60    IAX. No. of PSUs on 16A   IRCUIT BREAKER    EAKAGE CURRENT   95 ~ 110%    Protection type : 11 ~ 13.5V    Protection type : 11 ~ 10VDC or PW    FORKING TEMP.   -20 ~ +60°C (Ref.    FORKING HUMIDITY   -40 ~ +80°C, 10 ~ 50Hz, 2G 1    AFETY STANDARDS   UL1310, CAN/CS    ITHSTAND VOLTAGE   I/P-O/P:3KVAC    FOLATION RESISTANCE   I/P-O/P:3KVAC    FOLATION RESISTANCE   I/P-O/P:310    MC IMMUNITY   Compliance to EN    MC IMMUNITY   COMPLIANCE   COMPLIANCE    MC IMMUNITY   COMPLIANCE   COMPLIANCE    MC IMM	ETUP, RISE TIME         Note.6         500ms, 30ms / 230VAC         1500ms, 30r           OLD UP TIME (Typ.)         50ms/230VAC         16ms/115VAC at f           OLTAGE RANGE         Note.4         90 ~ 264VAC         127 ~ 370VDC           REQUENCY RANGE         47 ~ 63Hz         85%           FFICIENCY (Typ.)         82%         85%           C CURRENT (Typ.)         1.2A/115VAC         0.7A/230VAC           IRUSH CURRENT (Typ.)         COLD START 60A(twidth=600μs means and processes and p	ETUP, RISE TIME Note.6 OLD UP TIME (Typ.) OLTAGE RANGE Note.4 OLD UP TIME (Typ.) OLTAGE RANGE Note.4 PREQUENCY RANGE REQUENCY RANGE FFICIENCY (Typ.) 82% 85% 86% C C URRENT (Typ.) 1.2A/115VAC 0.7A/230VAC RICUIT BREAKER EAKAGE CURRENT VER CURRENT VER VOLTAGE IMMING CONTROL (OPTIONAL) IORKING TEMP. FORKING HUMIDITY TORAGE TEMP., HUMIDITY TORAGE TEMP. WITH STANDARDS INTERVATE COMPLIANCE WITH STANDARDS WITH STANDARD WITH STANDARDS WITH STANDARD	ETUP, RISE TIME	SOURCE   S		

- 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
- 7. Output voltage can be adjusted through the SVR1 on the PCB; limit of output constant current level can be adjusted through the SVR2 on the PCB.
- 8. Constant current operation region is within the specified output voltage range above. This is the suitable operation region for LED related applications.
- 9. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit.







## ■ 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)

