



■ Features :

- 115VAC or 230VAC models available
- Built-in active PFC function
- Constant current design
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- · Fully isolated plastic case
- Class 2 Power Unit
- \bullet Class ${\rm I\hspace{-.1em}I}$ power unit, no FG
- IP42 design
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)
- 100% full load burn-in test
- Low cost
- High reliability
- 3 years warranty



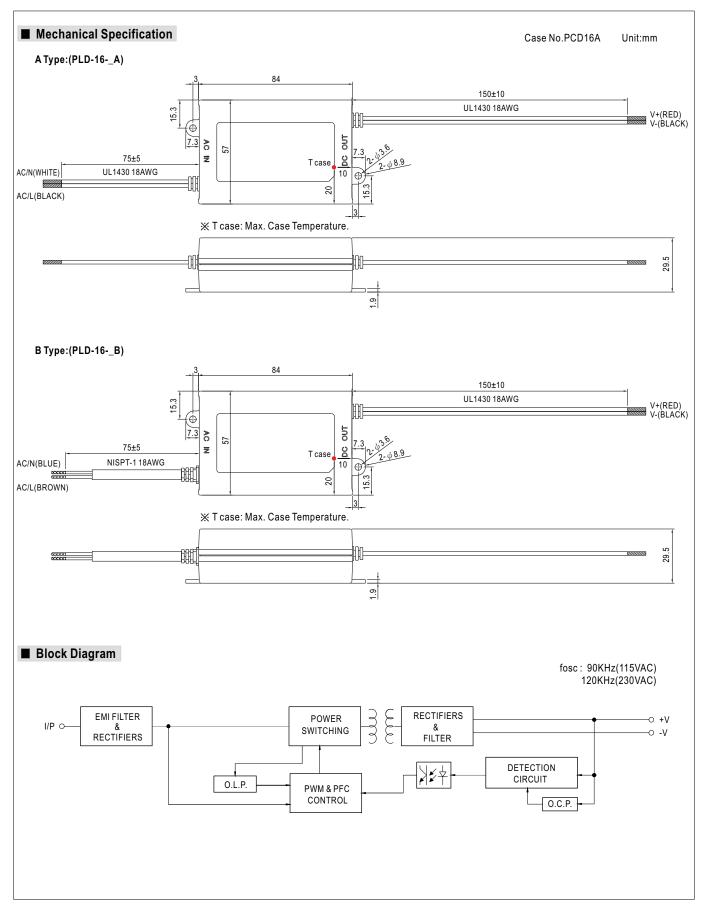
PLD-16-350 $\overline{\mbox{A}}$ A : With AC input 90~ 135VAC.

B: With AC input 180~ 295VAC.

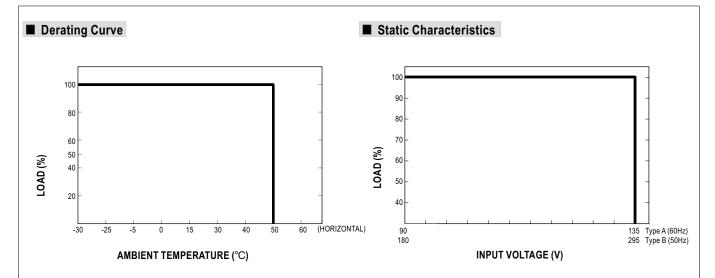
SPECIFICATION

NATEO CURRENT 3.50mA 700mA 1050mA 1.100mA 1.00mA 1.0	MODEL			PLD-16-350	PLD-16-700	PLD-16-1050	PLD-16-1400
CURRENT ACCURACY		RATED CURRENT		350mA	700mA	1050mA	1400mA
NATED POWER RIPPLE & NOISE (max.) Not.1 4.6Vp-p 2.7Vp-p 2.2Vp-p 2.2Vp-p 2Vp-p 2	OUTPUT	OPERATING VOLTAGE RANGE		24 ~ 48V	16 ~ 24V	12 ~ 16V	8 ~ 12V
16.8W		CURRENT ACCURACY		±5.0%			
NOLOAD OUTPUT VOLTAGE (max) SOV		RATED POWER		16.8W	16.8W	16.8W	16.8W
SETUP TIME		RIPPLE & NOISE (max.) Note.1		4.6Vp-p	2.7Vp-p	2.2Vp-p	2Vp-p
FREQUENCY RANGE		NO LOAD OUTPUT VOLTAGE (max.)		60V	35V	25V	16V
POWER FACTOR (Typ.)		SETUP TIME		500ms / 230VAC 2000ms / 115VAC at full load			
TOTAL HARMONIC DISTORTION B series THD < 20% when output loading≥70% at 115VAC DISTORTION B series THD < 20% when output loading≥70% at 230VAC input and output loading≥80% at 277VAC input	INPUT	FREQUENCY RANGE		47 ~ 63Hz			
DISTORTION		POWER FACTOR (Typ.)		PF>0.9/115VAC, PF>0.9/230VAC, PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)			
NOTE PROTECTION Final Process Service			A series	THD< 20% when output loading≧70% at 115VAC			
NPUTE REFICIENCY (Typ.) B series 85.5% 86.6% 85.6% 85.6% 83.5% 83.5% 83.5% 84.0% 85.6% 85.6% 83.5% 83.5% 84.0% 85.6% 85.6% 83.5% 83.5% 84.0			B series				
		EFFICIENCY (Typ.)	A series			1 1 11	82.5%
INRUSH CURRENT(Typ.) COLD START 20A(twidth=25µs measured at 50% lpeak) at 230VAC MAX. No. of PSUs on 16A CIRCUIT BREAKER A series 58 units (circuit breaker of type B) / 58 units (circuit breaker of type C) at 115VAC Description of 16A CIRCUIT BREAKER A series 58 units (circuit breaker of type B) / 128 units (circuit breaker of type C) at 230VAC LEAKAGE CURRENT 40.5mA / 240VAC SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed. DVER TEMPERATURE Shut down o/p voltage, re-power on to recover WORKING TEMP. 40.0 ** *50°*C (Refer to "Derating Curve") WORKING HUMIDITY 20 ** 95% RH non-condensing STORAGE TEMP., HUMIDITY 40 ** ** *80°*C, 10 ** 95% RH TEMP. COEFFICIENT 40.03%/°C (0 ** 50°*C) VIBRATION 10 ** 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to ENS5015 (B type only), EN61000-3*2. Class C; EN61000-3*3, FCC part 18 non-consumer equipment(A type only CMC IMMUNITY Compliance to EN61000-4*2,3,4,5,6,8,11, EN61547, light industry level, criteria A OTHERS DIMENSION 84*57*29.5mm (L*W*H) PACKING DIMENSION 34*57*29.5mm (L*W*H) PACKING DIMENSION 20.19kg, 72pcs/14.7kg/0.92CUFT NOTE 1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 2. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers. 3. To fulfill requirements of the latest EFP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently			B series	85.5%	86%	85%	83.5%
MAX. No. of PSUs on 18A circuit A series 58 units (circuit breaker of type B) / 58 units (circuit breaker of type C) at 115VAC B series 128 units (circuit breaker of type B) / 128 units (circuit breaker of type C) at 230VAC		AC CURRENT (Typ.)					
On 16A CIRCUIT B series 128 units (circuit breaker of type B) / 128 units (circuit breaker of type C) at 230VAC LEAKAGE CURRENT		1,717					
BREAKER B series 128 units (circuit breaker of type B) / 128 units (circuit breaker of type C) at 230VAC			A series				
SHORT CIRCUIT Hiccup mode, recovers automatically after fault condition is removed.			B series				
OVER TEMPERATURE Shut down o/p voltage, re-power on to recover		LEAKAGE CURRENT					
WORKING TEMP.	PROTECTION	SHORT CIRCUIT					
ENVIRONMENT ENVIR		OVER TEMPERATURE					
ENVIRONMENT STORAGE TEMP., HUMIDITY	ENVIRONMENT	WORKING TEMP.		, ,			
TEMP. COEFFICIENT ±0.03%/°C (0 ~ 50°C) VIBRATION 10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY STANDARDS UL8750,CSA C22.2 No.250.0-08(except for PLD-16-350);ENEC EN 613471-1,EN 61347-2-13 independent, EN62384(for B type only), IP42 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to EN55015 (B type only), EN61000-3-2 Class C; EN61000-3-3, FCC part 18 non-consumer equipment(A type only multiple only of the compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level, criteria A WITHSTAND VOLTAGE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level, criteria A WITHSTAND VOLTAGE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level, criteria A WITHSTAND VOLTAGE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level, criteria A WITHSTAND VOLTAGE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level, criteria A WITHSTAND VOLTAGE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level, criteria A WITHSTAND VOLTAGE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to EN61000-3-2 Class C; EN61000-3-3, FCC part 18 non-consumer equipment(A type only industry level, criteria A WITHSTAND VOLTAGE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to EN61000-3-2 Class C; EN61000-3-3, FCC part 18 non-consumer equipment(A type only industry level, criteria A WITHSTAND VOLTAGE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to EN61000-3-2 Class C; EN61000-3-3, FCC part 18 non-consumer equipment(A type only industry level, criteria A WITHSTAND VOLTAGE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% R		WORKING HUMIDITY		20 ~ 95% RH non-condensing			
VIBRATION 10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes SAFETY STANDARDS UL8750,CSA C22.2 No.250.0-08(except for PLD-16-350);ENEC EN 613471-1,EN 61347-2-13 independent, EN62384(for B type only), IP42 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to EN55015 (B type only), EN61000-3-2 Class C; EN61000-3-3, FCC part 18 non-consumer equipment(A type only EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level, criteria A MTBF 906.5Khrs min. MIL-HDBK-217F (25°C) DIMENSION 84*57*29.5mm (L*W*H) PACKING 0.19Kg; 72pcs/14.7Kg/0.92CUFT 1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 2. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers. 3. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently		STORAGE TEMP., HUMIDITY					
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SAFETY STANDARDS EN62384(for B type only), IP42 approved WITHSTAND VOLTAGE I/P-O/P:3.75KVAC ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH EMC EMISSION Compliance to EN55015 (B type only), EN61000-3-2 Class C; EN61000-3-3, FCC part 18 non-consumer equipment(A type only) EMC IMMUNITY Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level, criteria A WITHSTANDARDS MTBF 906.5Khrs min. MIL-HDBK-217F (25°C) DIMENSION 84*57*29.5mm (L*W*H) PACKING 0.19Kg; 72pcs/14.7Kg/0.92CUFT 1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 2. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers. 3. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently		VIBRATION					
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OTHERS DIMENSION 84*57*29.5mm (L*W*H) PACKING 0.19Kg; 72pcs/14.7Kg/0.92CUFT 1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 2. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers. 3. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently		EMC IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level, criteria A			
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	NOTE	Direct connecting To fulfill requirement					

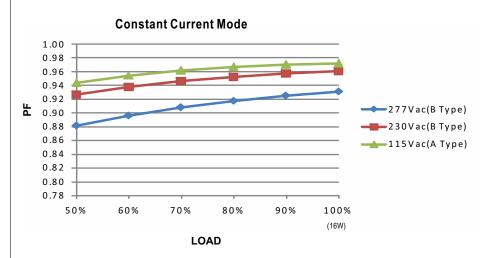








■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (PLD-16-350)

PLD-16 series possess superior working efficiency that up to 85.5% can be reached in field applications.

