

Powerland's ICE-600 Programmable Series

720W LED Drivers offers digital programmable drivers with wide-range adjustable output current, together with 12V/250mA auxiliary output (optional) for smart lighting.

The output current of this series are programmable, and designed for 0(0.05)-10V/PWM/Rset/Clock/DMX (upon request) ultra-deep dimming applications. Bluetooth and ZigBee dimming are provided in B and E versions, respectively.



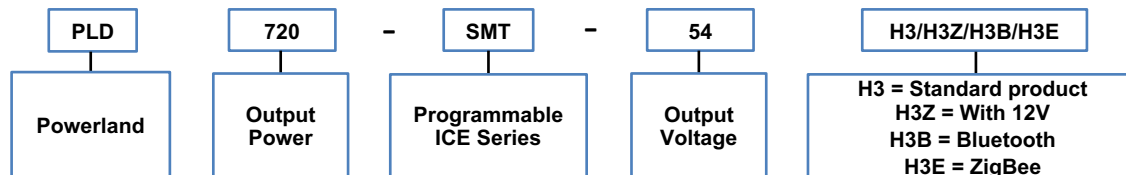
Applications

- Outdoor & indoor LED lights
- LED lights with flexible current settings
- Parking lights and architecture decoration lights
- LED horticulture lights
- LED fishing lights
- Wireless dimming lights (Optional)



600Vac Operation

Model Name Definition



Specifications

Model	Max. Output Power	Input Voltage	Output Voltage Range	Max. Output Current	Efficiency	Max. Case Temperature	THD	Power Factor	Dimensions
PLD720-SMT-54-H3(Z/B/E)	720W	305~580Vac	42~54V	13.3A	94.5%	90°C	<20%	>0.95	280x123x54mm
PLD720-SMT-48-H3(Z/B/E)	720W	305~580Vac	36~48V	14.9A	94.5%	90°C	<20%	>0.95	280x123x54mm
PLDC-CSCA	Powerland LED drivers programmer (accessory)								

* Based on 25°C ambient temperature, rated input voltage, and full load.

Features

- Ultra wide input voltage range: 305~580Vac
- High power factor: 0.99 typical for 347Vac, full load
- Maximum current & maximum voltage can be programmed
- Isolated 12V/250mA auxiliary power output
- Constant current & constant voltage output
- Compatible with 0-10V, PWM, external resistor, clock, DMX (upon request) dimming
- Isolated dimming signals
- Support wireless dimming (Bluetooth or ZigBee protocol)
- > 70,000 hours lifetime at 75°C Tcase
- > 7 years warranty at 75°C Tcase
- Min. operating temperature @ -40°C
- Safety according to UL8750
- Surge voltage rating: L-N 4kV, L/N-Earth 6kV
- EMC according to FCC Part 15 Class A
- Lightning, OVP, SCP, OTP & Open Circuit Protection

Electrical Specifications

Model	PLD720-SMT-54-H3(Z/B/E)	PLD720-SMT-48-H3(Z/B/E)
Output Voltage Range	42~54V	36~48V
Current Programmable	Yes	Yes
Max Output Current	13.3A	14.9A
Output AUX Power Voltage (Optional)	12V	12V
Output AUX Power Current (Optional)	0-250mA	0-250mA
Dimming	0(0.05)~10V, PWM, External Resistor, Clock, DMX (upon request)	
Wireless Dimming (Optional)	B Version: Bluetooth; E Version: ZigBee	
Output Power	720W	720W
Max. Current Ripple	± 5%	± 5%
Max. Voltage Ripple	± 2%	± 2%
Input Voltage Range	305~580Vac	305~580Vac
Frequency Range	47~63Hz	47~63Hz
Max. Input Current	3.9A	3.9A
Max. Input Power	800W	800W
Power Factor	>0.95 @ 480Vac & 70~100% full load	
Efficiency	94.5%	94.5%
Max. Open Circuit Voltage	56V	50V
Ingress Protection	IP67	
THD	<20% @ 347~480Vac & 80~100% full load	
Protections	OVP, OCP, SCP, OTP & Open Circuit Protection	
Environmental Protection	UL Dry & Damp & Wet	
Working Temperature	-30~+60°C	
Max. Case Temperature	90°C	
Surge Protection	L-N 4kV, L/N-Earth 6kV	
ANSI Surge Type	1.2/50µs Combination Wave (w/t 2Ω)	
Agency Approbations	UL8750	
Electromagnetic Compliance	Per Title 47 CFR Part 15 Class A	
Isolation (Primary to Secondary)	3750Vac / 10mA _{Max} / 60seconds	
Isolation (Primary to Earth)	3400Vac / 10mA _{Max} / 60seconds	
Isolation (Secondary to Earth)	1150Vac / 10mA _{Max} / 60seconds	
Case Type	Aluminum	
Dimension	280x123x54mm	
Mounting Length	291mm	
Overall Length	310mm	
Weight	3.56kg	
Life Time	>70,000 hours @ full load, 75°C T _{case}	

* Unless otherwise noted, the data are based on 25°C ambient temperature, 480Vac input voltage, and full load.