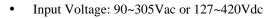


Main Features:



• Output Wattage: Constant Wattage (C.P.) at 075W

with Adjustable Current Setting

• Programmable Method: Wireless (NFC)

• High Efficiency: Up to 90%

• Dimming Function: DALI2.0/D4I

• Integrated 16Vdc Bus Power supply

• Auxiliary Voltage: 24Vaux with **3W**

• Lightning Protection: Built-in Surge Protector at 10KV/5KA

• Reliability Protection: OVP, SCP, OTP

• Safety Regulation: Complies with UL8750 & EN61347

• Type TL and HL Program Certified from UL

• Class P UL standard for retrofit kit

Waterproof Rating: IP67

• Seven Year Warranty under Normal Usage Conditions









Model No. ⁽ⁱ⁾	Output Voltage Range Vmin - Vmax	C.P. Programmable Output C.C. Range	OVP	ОТР	Case Temperature		
	(Vdc)	(mA) ⁽ⁱ⁾	(Vdc max.)	(°C) ⁽ⁱⁱ⁾	(Tc)		
LDD-075D107F0700-U-D4	64 - 150	500 - 700	120% Vomax, typ.	Tc≧105±10°C	90C		
LDD-075D071F1050-U-D4	43 - 107	700 - 1050	120% Vomax, typ.	Tc≧105±10°C	90C		
LDD-075D054F1400-U-D4	32 - 71	1050 - 1400	120% Vomax, typ.	Tc≧105±10°C	90C		
LDD-075D036F2100-U-D4	21 - 54	1400 - 2100	120% Vomax, typ.	Tc≧105±10°C	90C		
LDD-075D027F2800-U-D4	16 - 36	2100 - 2800	120% Vomax, typ.	Tc≧105±10°C	90C		
Note	(i) Pre-set Constant	(i) Pre-set Constant Current Value with dimming					
	(ii) Lower the outpu	ii) Lower the output current when Tc≧105±10°C; Auto Recovery When Tc≦70±10°C					

SPECIFICATION

Input Spec.	Condition Description	Min.	Normal	Max.	Units
Input Voltage Range	Universal Input	90	100-277	305	VAC
Input Frequency Range		47	50/60	63	Hz
Input Current	@220 VAC input, full load output			0.4	Α
Power Factor	@60-100%load, refer to PF vs. Load curve		>0.9		



Inrush Current	At 220 VAC input, 25°C cold start / At 277 VAC input, 25°C cold start		66 / 90	А
Leakage Current	max @277Vac 60Hz		0.001	Α
Surge Protection	Line to line 6kV, line to ground 10kV, IEC 61000-4-5			

Output Spec.	Condition Description	Min.	Normal	Max.	Units
Current Accuracy			±2		%
Dinale Comment	At 100%-60% Load. The result differs according to different LED			Е	0/ / -)
Ripple Current	load characteristic.			5	% lp-p (lo)
Overshoot/Undershoot	% of lout max & LED load			10	%
Turn-On Delay	Measured at 110 VAC/220 VAC input and Full Load			1.2	S
Auxiliary Power (Vaux)	With 4W max	21.5	24	26.5	Vdc

General Spec.	Condition Description	Min.	Normal	Max.	Units
Efficiency	Measured at full load and 220Vac in the thermal balanced condition.		91	92	%
MTBF	measured at Tc= 75°C (MIL-HDBK-217F)		≥320,000		Hours
Lifetime	measured at Tc= 75° C		≥100,000		Hours
Operating(Tc)					
/Storage	10%RH \sim 100%RH (See De-rating Curve for more details)	-40/-40		90/85	°C
Temperature					
Dimension	Ol is the group!! leasth with magnetics plates	158/2	132 x 68 x 38	.5	mm
(OL/L x W x H)	OL is the overall length with mounting plates	6.22/5.2 x 2.66 x 1.52		inch	
Weight	Net weight without package		1.76/0.80		lb/kg

Safety & EMC Compliance	Category	Condition Description
	UL8750	Light Emitting Diode(LED) Equipment for Use in Lighting Products
	UL1012	Power Unit Other Than Class 2
Safety Regulations	IEC 61347-1	Lamp Controlgear Part 1: General and Safety Requirements
	IEC 61347-2-13	Lamp Controlgear Part 2-13: Particular Requirement for d.c. or a.c. Supplied Electronic Controlgear foe LED Modules
	CE	Europe: EN 61347-1, EN61347-2-13
	IEC 55015	Conducted emission test & Radiated emission test
ENAL Characteristic	IEC 61000-3-2	Harmonic current emissions; Class C (≥75% load)
EMI Standards	IEC 61000-3-3	Voltage fluctuations & flicker
	FCC Part 15	Class B
	IEC 61000-4-2	Electrostatic discharge (ESD)
	IEC 61000-4-3	Radio frequency electromagnetic field susceptibility test (RS)
EMS Standards	IEC 61000-4-4	Electrical fast transient (EFT)
	IEC 61000-4-5	Surge immunity test
	IEC 61000-4-6	Conducted radio frequency disturbances test (CS)

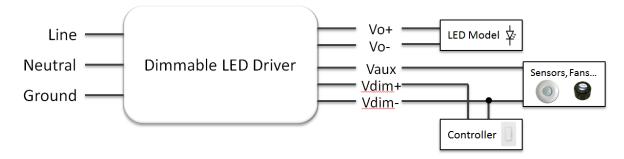


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IEC 61000-4-8	Power frequency magnetic field test
IEC 61000-4-11	Voltage dips
IEC 61547	Electromagnetic immunity requirements applies to lighting equipment

■ Dimming Curve

Parameter	Min.	Тур.	Max.
DALI Interface Standard	IEC62386	6-101,102,150,207,250,251,2	52,253
Dimming Range	10%	-	100%
DA1,DA2 High Level	9.5	16	22.5
DA1,DA2 Low Level	-6.5	0	6.5
DA1,DA2 Current	0		2mA
Bus Power Supply Voltage	12Vdc	16Vdc	20Vdc
Bus Power Supply Current	52mA		60mA
Auxiliary Power Voltage	21.5V	24V	26.5V
Auxiliary Power	-	-	4W
Auxiliary Power Endurance			Q _{ma}
@6W	-	-	8ms
Auxiliary Power Endurance			6ms
@10W	-	-	OHIS
Bus Power Supply Current	52mA	-	60mA

Dimming Wire

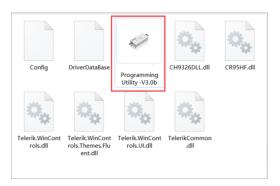


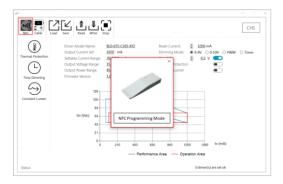
■ Programming:

-NFC Programming by PC/Laptop



- a. Download PC Software at https://www.upowertek.com/download-2/
- b. Click Upowertek Programming Utility.exe
- c. The GUI start and notify you the programming mode (cable programming or NFC programming)
- d. Click "NFC" button if it's not NFC programming mode.





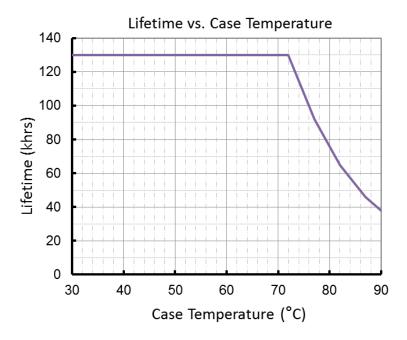
- a. Download Android APP at https://www.upowertek.com/download-2/
- b. Only available on Android cellphone (iPhone is not supported)
- c. The cellphone should have NFC function and make sure it is enabled.



d. Turn on NFC switch of cellphone, then open the APP by icon below

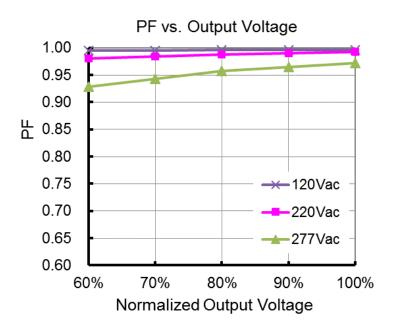


■ Lifetime vs. Case Temperature

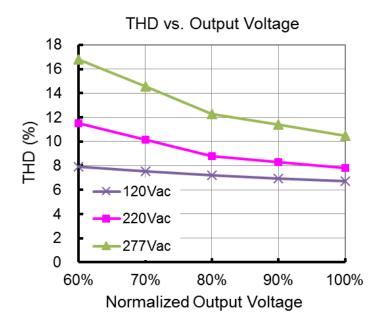


(End of Life: Maximum Failure Rate=10%)

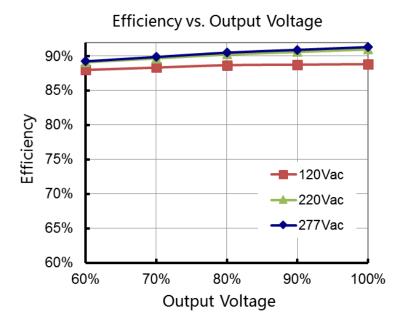
■ Power Factor VS Load



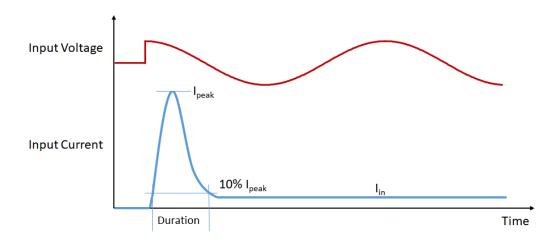
■ THD VS Load



■ Efficient VS Load(1.05A model)



■ Inrush current

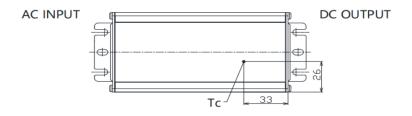


Input Voltage	Ipeak	Duration
120Vac	37A	820us
220Vac	66A	820us
277Vac	90A	760us

■ Dielectric Strength

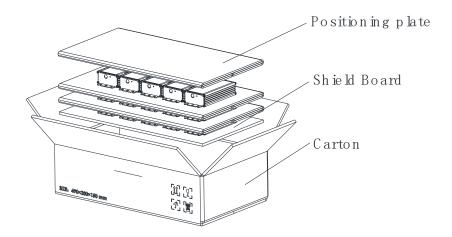
•				
Unit: Vac	Input	Output	Dimming	Case
Input	-	3750	3750	1554
Output	3750	-	1554	1554
Dimming	3750	1554	-	1554
Case	1554	1554	1554	-

■ Tc Point

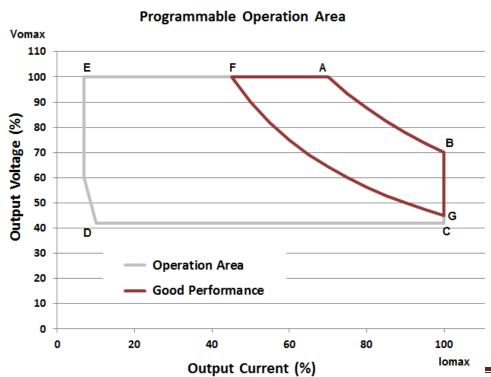


■ Packaging information

Typical Carton Dimension(L×W×H)	490×280×165 mm
Positioning plate	3pcs/carton
Shield Board	1pcs/carton
LED Drivers	15pcs/carton



■ Current vs. Voltage Curve



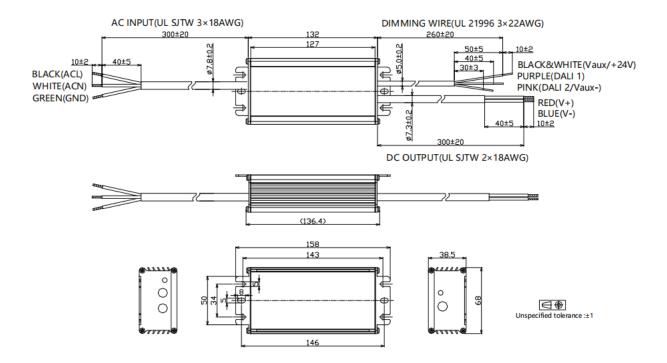


Io (mA) Vo (V)	В	Α	F	G	С	D	E
	Imax	Vmax	(60% of I at A)	(as Imax)	(as Imax) Vmin =	(10% of Imax)	(10% of I at A)
			(as V _{max})	(60% of V at B)	(60% of V at B)	(60% of V at B)	(as V _{max})
LDD-075D107F0700-U-D4	700 107	500 150	300 150	700 64	700 64	70 64	50 150
LDD-075D071F1050-U-D4	1050 71	700 107	420 107	1050 43	1050 43	105 43	70 107
LDD-075D054F1400-U-D4	1400 54	1050 71	630 71	1400 32	1400 32	140 32	105 71
LDD-075D036F2100-U-D4	2100 36	1400 54	840 54	2100 21	2100 21	280 21	140 54
LDD-075D027F2800-U-D4	2800 27	2100 36	1260 36	2800 16	2800 16	280 16	210 36
On BA Curve Line	Constant F	Power Area					
Within BAFG Box		Good Perfor	rmance Area				
Within ABCDE Box			Operational Area				

■ Mechanical Outline (Unit: mm)

Note: Dimensions in millimeters, where 25.4 mm = 1 inch

Tolerance: ±0.51 mm



Safety Note: Please make sure the output cable does not connect to dimming cable or the cables of other drivers until 20 seconds after being tested because of the remained voltage in the output capacitor.

Revision

Date	Rev.	Description of Change		
		Item	Old	New
10/14/2022	V2a	In Draft Release	1	1

