

LED Driver

From The World's No.1 Power Supply Company

October 2015



www.DeltaPSU.com

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Company Profile Delta Electronics Group

World's No.1* Power Supply Company

Delta Electronics Group is the world's largest provider of switching power supplies and a major source for power management and renewable energy solutions. Established in 1971, Delta has sales offices and R&D facilities worldwide with manufacturing plants located in Taiwan, Thailand, China, Mexico, India and Europe.

As a global leader in power electronics, Delta has long been adopting Green manufacturing processes, recycling initiatives, waste management programs and environmentally-friendly green buildings. In 2014, Delta Electronics was selected for the prestigious Dow Jones Sustainability Index (DJSI) World for the fourth consecutive year. Amongst many other national and international awards, since 2010, Delta has also received more than 49 internationally recognized technology and design awards.

Standard Power Supplies



Since 2008, Delta's Industrial Power Supply (IPS) team had been launching many new products in Delta's global distribution channels nearly on a monthly basis. These products which include DIN Rail, Panel Mount, Open Frame and LED Driver types offer customers the same industrial leading technology and quality that Delta's ODM partners are familiar with. Delta standard power supplies are able to cater to nearly all industrial applications including cash management and automation solutions and many more. With the wide range of reliable products and world class customer support, the IPS team had seen more than 90% CAGR between 2008 to 2014. Please visit our standard product homepage at **www.DeltaPSU.com** for more product information.

2 Modified Standard Power Supplies



Many top tier electronics companies on the Fortune® 500 list have long regarded Delta as a trusted ODM partner. These companies expect nothing less than the best technology and quality. With decades of industrial leading manufacturing and design experiences in ODM power management products, IPS team can also offers our customers modified standard products by leveraging from the wide range of standard products in our catalog. Modified standard products enable our customers to optimize their costs and product development time. For further query, please contact your local Delta distributor or simply send your query to **info@deltapsu.com**.

*Based on global sales revenue from the Micro-Tech Consultants March 2015 report

Standard Products LED Driver

LNE



Delta LNE series of LED drivers features adjustable output voltage and current level. All the models come in full corrosion resistance aluminum casing and major international safety certifications. LNE series offers the capability to achieve different level of LED brightness via built-in dimming function to meet various application and energy optimization needs. The products are designed and rigorously tested to work with various indoor and outdoor LED lighting conditions. Featuring high surge immunity (CM: 6KV, DM: 4KV) and complying to IP65/IP67 make Delta LNE series an essential part of an energy efficient LED lighting power solution for both indoor and outdoor applications.

Typical Applications



Package Types



LNE-OVOWAOO

- IP65 protection
- With potentiometers to adjust output voltage and constant current level



LNE-OVOWDOO

- IP67 protection
- With dimming cable to adjust constant current level

All Delta LED drivers are fully compliant with RoHS Directive 2011/65/EU for environmental protection. For more information or enquiries, please do not hesitate to contact your local Delta Electronics distributor or visit www.DeltaPSU.com.



Selection Guide LED Driver

New products are frequently introduced. Please visit www.DeltaPSU.com for latest product updates.

Product Type	Series	Model Name Phase PFC 0			Output Voltage	Output Current		Output	
Floadet Type	Genes	ModerMarrie	1	3		Output voltage	Output Current	100W	120W
LED Driver	LNE	LNE-12V100WADD	•		•	12V	8.00A	96W	
	 High surge immunity IP65/IP67 Compliant 	LNE-12V100WDDD	•		•		8.00A	96W	
	LED lighting power solution	LNE-12V120WADD	•		•		10.0A		•
		LNE-12V120WDDD	•		•		10.0A		•
		LNE-12V150WADD	•		•		12.5A		
		LNE-12V150WDDD	•		•		12.5A		
		LNE-12V185WADD	•		•		13.0A		
		LNE-12V185WDDD	•		•		13.0A		
		LNE-24V100WADD	•		•	24V	4.00A	96W	
		LNE-24V100WDDD	•		•		4.00A	96W	
		LNE-24V120WADD	•		•		5.00A		•
		LNE-24V120WDDD	•		•		5.00A		•
		LNE-24V150WADD	•		•		6.30A		
		LNE-24V150WDDD	•		•		6.30A		
		LNE-24V185WADD	•		•		7.80A		
		LNE-24V185WDDD	•		•		7.80A		
		LNE-36V100WADD	•		•	36V	2.65A	95.4W	
		LNE-36V100WDDD	•		•		2.65A	95.4W	
		LNE-36V120WADD	•		•		3.40A		٠
		LNE-36V120WDDD	٠		•		3.40A		٠
		LNE-36V150WADD	٠		•		4.20A		
		LNE-36V150WDDD	٠		•		4.20A		
		LNE-36V185WADD	•		•		5.20A		
		LNE-36V185WDDD	•		•		5.20A		
		LNE-48V100WADD	•		•	48V	2.00A	96W	
		LNE-48V100WDDD	•		•		2.00A	96W	
		LNE-48V120WADD	•		•		2.50A		•
		LNE-48V120WDDD	•		•		2.50A		•
		LNE-48V150WADD	•		•		3.20A		
		LNE-48V150WDDD	•		•		3.20A		
		LNE-48V185WADD	•		•		3.90A		
		LNE-48V185WDDD	•		•	54V	3.90A		
		LNE-54V150WADD	•		•		2.80A		
		LNE-54V150WDDD	•		•		2.80A		
		LNE-54V185WADD	•		•		3.45A		
		LNE-54V185WDDD	•		•		3.45A		

LNE LED Driver Model Numbering

LN	E –	XXV	XXXW			
LED Driver	Product Series E - High efficiency and PFC	Output Voltage	Output Power	Package Type A - IP65 with with potentiometers to adjust output voltage & constant current level D - IP67 with dimming cable to adjust constant current level	Safety Approval A - UL approval C - ENEC, CE, KC, PSE and CCC approval	Variable A - Delta Standard

Power				Dimming		TÜV RT ↔ 8-9 TÜV RT ↔ 10-11 TÜV RT ↔ 12-13
150W	185W	Input Voltage Range	IP	Cable	Safety Standards	Page
		90-305Vac (LNE-12V□□□W□A□)	65			6-7
		90-264Vac (LNE-12V□□□W□C□)	67	•	LNE-12VDDDWDCD: 🕻 € 🔍 🔣 18 🎉 TÜV RT 🔅	
			65			
			67	•		
•			65			
•			67	•		
	156W		65			
	156W		67	•		
		90-305Vac (LNE-24V	65			8-9
		90-264Vac (LNE-24V□□□₩□C□)	67	•	LNE-24VDDDWDCD: 🕻 € 🔍 🔣 18 🕼 TÜV RT 🔅	
		1	65			
		1	67	•		
•		-	65			
•		-	67	•		
	•	-	65			
	٠	-	67 •			
		90-305Vac (LNE-36V□□□W□A□)	65			10-11
		90-264Vac (LNE-36V□□□W□C□) 67 ● LNI	LNE-36VDDDWDCD: (€ 🔍 🔣 18 🕻 tûv rt 📀			
			65			
			67	•		
•			65			
•			67	•		
	٠		65			
	٠		67	•		
		90-305Vac (LNE-48V□□□W□A□)	65			12-13
		90-264Vac (LNE-48V□□□W□C□)	67	•	LNE-48V000W0C0: ((🖤 🌋 18 🕅 TÜV RT 🔅	
		1	65		1	
		1	67	•	1	
•		1	65		1	
•		1	67	•	1	
	•	1	65			
	•	67 •				
•		90-305Vac (LNE-54V□□□W□A□)	65			14-15
•		90-264Vac (LNE-54V□□□W□C□)	67	•	LNE-54V000W0C0: (() 🕼 🏌 tüv rt 🔅	
	٠	65				
	•		67	•		

LNE LED Driver 12V Output (North American AC Voltage)



LNE

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HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-305Vac
- Up to 92.0% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C •
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications •

GENERAL SPECIFICATIONS

OUTPUT		LNE-12V100W□A□	LNE-12V120W□A□	LNE-12V150W□A□	LNE-12V185W□A□		
Nominal Output Voltage		12V	12V	12V	12V		
LED System Voltage Range CC Mode	e in	6-12Vdc	6-12Vdc	6-12Vdc	6-12Vdc		
Output Voltage Adjustment Range ¹⁾	t	10.8-13.5V	10.8-13.5V	10.8-13.5V	10.8-13.5V		
Nominal Output Current		8.00A	10.0A	12.5A	13.0A		
Output Current Adjustment Range ¹⁾	t	4.00-8.00A	5.00-10.0A	6.25-12.5A	6.50-13.0A		
Output Power		96W	120W	150W	156W		
Line Regulation			± 0.5% (@	90-305Vac)			
Load Regulation			± 2% (@ 90-305)	Vac, 0-95% load)			
PARD (20MHz)			< 150	mVpp			
Hold-up Time			16ms typ. @ 115Vac & 230	Vac & 277Vac (100% load)			
INPUT							
Input Voltage Range			90-30)5Vac			
Input Frequency			47-6	53Hz			
Input Current		1.30A max. @ 115Vac, 0.65A max. @ 230Vac, 0.60A max. @ 277Vac	1.50A max. @ 115Vac, 0.70A max. @ 230Vac, 0.65A max. @ 277Vac	1.80A max. @ 115Vac, 0.85A max. @ 230Vac, 0.80A max. @ 277Vac	1.90A max. @ 115Vac, 0.90A max. @ 230Vac, 0.80A max. @ 277Vac		
Efficiency at 100% Load		90.0% typ. @ 115Vac, 92.0% typ. @ 230Vac & 277Vac	90.0% typ. @ 115Vac, 92.0% typ. @ 230Vac & 277Vac	89.0% typ. @ 115Vac, 91.5% typ. @ 230Vac, 91.0% typ. @ 277Vac	89.0% typ. @ 115Vac, 91.5% typ. @ 230Vac & 277Vac		
Max Inrush Current (Cold S	Start)	65A typ. @ 230Vac					
Power Factor		0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac, 0.93 typ. @ 277Vac 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac, 0.92 typ. @ 277Vac					
Leakage Current			< 0.75mA	@ 305Vac			
MECHANICAL							
Case Cover / Chassis			Alum	inium			
Dimensions (L x W x D)		220 x 68 x 38.8 mm (8.66" x 2.68" x 1.53")	228 x 68 x 38.8 mm (8.98" x 2.68" x 1.53")			
Unit Weight		0.98 kg (2.16 lb)	0.98 kg (2.16 lb)	1.04 kg (2.29 lb)	1.04 kg (2.29 lb)		
Cooling System			Conve	ection			
Input Cable	UL			Neutral: Blue, PE: Green/Yellow)			
Output Cable	UL			ive: Red, Negative: Black)			
Dimming Cable	UL	700.000 hus		ve: White, Negative: Blue)	700 000 has		
		> 700,000 hrs	> 700,000 hrs	> 700,000 hrs	> 700,000 hrs		
ENVIRONMENT			40%0 +	70%			
Operating Temperature Storage Temperature		-40°C to +70°C					
Power De-rating		-40°C to +85°C > 60°C (4% / °C)					
Operating Humidity			`	on-Condensing)			
Operating Altitude				(0 to 9,840 ft)			
Degree of Protection				(0 10 9,840 ft)			
Votes							

Notes

1) 2) 3)

, For LNE-12V□□□WA□□ package type only. MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load). All parameters are specified at 25°C ambient temperature unless otherwise indicated.

LNE LED Driver 12V Output (International AC Voltage)



LNE

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HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-264Vac
- Up to 92.0% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C •
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications •

GENERAL SPECIFICATIONS

ED System Voltage Rane in Control 6-12Vdc	OUTPUT		LNE-12V100W□C□	LNE-12V120W□C□	LNE-12V150W□C□	LNE-12V185W□C□		
Co Made 6-12/Vac 7/Vac 7/Vac	Nominal Output Voltage		12V	12V	12V	12V		
lange of the set of t	LED System Voltage Range CC Mode	e in	6-12Vdc	6-12Vdc	6-12Vdc	6-12Vdc		
Dutput Coursent Adjustment 4.00-8.00A 5.00-10.0A 6.25-12.5A 6.50-13.0A Ling Regulation 96W 120W 150W 156W Ling Regulation ± 0.5% (0.90-264/3x) (0.90-264/3x) (0.90-264/3x)	Output Voltage Adjustment Range ¹⁾	t	10.8-13.5V	10.8-13.5V	10.8-13.5V	10.8-13.5V		
lange 1 dege 1	Nominal Output Current		8.00A	10.0A	12.5A	13.0A		
ine Regulation ± 0.5% (@ 90-248Vac) coad Regulation ± 2% (@ 90-248Vac), 0-95% load) ARD (20MHz) < 150mVp Old-up Time < 150mVp Idd-up Time 0 NPUT - 150mVp Input Voltage Range 90-264Vac) (100% load) NPUT - 47-63Hz Input Voltage Range - 00.65A max. @ 230Vac 0.65A max. @ 230Vac 0.70A max. @ 115Vac, 0.88A max. @ 230Vac 0.90A max. @ 230Vac 90.0% typ. @ 115Vac, 0.65A max. @ 230Vac 90.0% typ. @ 115Vac, 0.88A max. @ 230Vac 90.9% typ. @ 115Vac, 0.95 typ. @ 230Vac 90.0% typ. @ 115Vac, 92.0% typ. @ 230Vac 90.0% typ. @ 115Vac, 0.95 typ. @ 230Vac 90.9% typ. @ 115Vac, 0.95 typ. @ 230Vac reakage Current < < 0.75m 4 ≥ 264Vac 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac 9.98 typ. @ 115Vac, 0.95 typ. @ 230Vac Seae Cover / Chassis 0.98 typ. 2.153m 0.98 typ. 2.153m 0.98 typ. 2.153m Dimensions (L x W x D) 220 x 68 x 38.8 mm (8.66* x 2.68* x 1.53") 1.04 kg (2.29 lb) 1.04 kg (2.29 lb) Ooding System 0.98 kg (2.16 lb) 1.04 kg (2.29 lb) 1.04 kg (2.29 lb) Ooling System </th <th>Output Current Adjustment Range¹⁾</th> <th>t</th> <th>4.00-8.00A</th> <th>5.00-10.0A</th> <th>6.25-12.5A</th> <th>6.50-13.0A</th>	Output Current Adjustment Range ¹⁾	t	4.00-8.00A	5.00-10.0A	6.25-12.5A	6.50-13.0A		
AARD (20MH2)	Output Power		96W	120W	150W	156W		
AVARD (20MHz) < term of the styp. @ 115Vac & 230Vac (100% load) NPUT NPU	Line Regulation			± 0.59	% (@ 90-264Vac)			
16ms typ. @ 115Vac & 230Vac (100% load) NPUT 90-264/25 NPUT 90-264/25 NPUT 90-264/25 NPUT Not colspan="4">Not colspan="4" Not colspan=	Load Regulation			± 2% (@ 90	-264Vac, 0-95% load)			
NPUT90-264Vacnput Voltage Range90-264Vacnput Frequency47-63Hznput Current1.30A max. @ 115Vac, 0.65A max. @ 230Vac1.50A max. @ 115Vac, 0.70A max. @ 230Vac1.90A max. @ 115Vac, 0.90A max. @ 230Vacstifficiency at 100% Load90.0% typ. @ 115Vac, 92.0% typ. @ 230Vac90.0% typ. @ 115Vac, 92.0% typ. @ 230Vac89.0% typ. @ 115Vac, 91.5% typ. @ 230Vacatk Inrush Current (Cold Start)90.0% typ. @ 115Vac, 92.0% typ. @ 230Vac92.0% typ. @ 230Vac91.5% typ. @ 230Vacceakage Current $< 55A$ typ. @ 230Vac0.98 typ. @ 115Vac, 92.0% typ. @ 230Vac91.5% typ. @ 230Vacceakage Current $< 0.75mA @ 264Vac$ < 0.98 typ. @ 115Vac, 92.0% typ. @ 230Vac9.98 typ. @ 115Vac, 92.0% typ. @ 230Vacceakage Current $< 0.75mA @ 264Vac$ < 0.98 typ. @ 115Vac, 92.0% typ. @ 230Vac9.98 typ. @ 115Vac, 92.0% typ. @ 230Vacceakage Current < 0.98 typ. @ 115Vac, 92.0% tsp. @ 230Vac 0.98 typ. @ 115Vac, 92.0% typ. @ 230Vac 0.98 typ. @ 115Vac, 92.0% typ. @ 230Vaccoling System Option System 0.98 kg (2.16 lb) 0.98 kg (2.16 lb) 1.04 kg (2.29 lb) 1.04 kg (2.29 lb)Convection NUICADIeVDE HO5RN-F3G1.0mm² (Lne: Brown, Neutral: Blue, PE: Green/Yellow)Ho5RN-F3G1.0mm² (Positive: Red, Negative: Black)Jinming CableVDE HO5RN-F2X1.0mm² (Positive: White, Negative: Black)> 700,000 hrsNUIRONMENT $> 700,000$ hrs> 700,000 hrs> 700,000 hrsConvector Sover De-rating Operating Humidty > 500000 hrs> 500000 hrs	PARD (20MHz)			<	< 150mVpp			
nput Voltage Range 90-264Vac nput Frequency nput Frequency 1.30A max. @ 115Vac, 0.65A max. @ 230Vac 1.80A max. @ 115Vac, 0.85A max. @ 230Vac 1.80A max. @ 115Vac, 0.85A max. @ 230Vac 0.90A max. @ 230Vac ifficiency at 100% Load 0.00% typ. @ 115Vac, 92.0% typ. @ 230Vac 90.0% typ. @ 115Vac, 92.0% typ. @ 230Vac 89.0% typ. @ 115Vac, 91.5% typ. @ 230Vac 89.0% typ. @ 115Vac, 91.5% typ. @ 230Vac 91.5% typ. @ 230Vac	Hold-up Time			16ms typ. @ 115	iVac & 230Vac (100% load)			
Apput Frequency 47-63Hz nput Current 1.30A max. @ 115Vac, 0.65A max. @ 230Vac 1.60A max. @ 115Vac, 0.70A max. @ 230Vac 1.90A max. @ 115Vac, 0.85A max. @ 230Vac 1.90A max. @ 115Vac, 0.90A max. @ 230Vac ffficiency at 100% Load 90.0% typ. @ 115Vac, 92.0% typ. @ 230Vac 90.0% typ. @ 115Vac, 92.0% typ. @ 230Vac 89.0% typ. @ 115Vac, 91.5% typ. @ 230Vac 89.0% typ. @ 115Vac, 92.0% typ. @ 230Vac 89.0% t	INPUT							
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nput Current 0.65A max. @ 230Vac 0.70A max. @ 230Vac 0.85A max. @ 230Vac 0.90A max. @ 230Vac ifficiency at 100% Load 90.0% typ. @ 115Vac, 92.0% typ. @ 230Vac 89.0% typ. @ 115Vac, 92.0% typ. @ 230Vac 89.0% typ. @ 115Vac, 91.5% typ. @ 230Vac 88.0% typ. @ 115Vac, 91.5% typ. @ 230Vac Aax Inrush Current (Cold Start) 0.98 typ. @ 115Vac, 92.0% typ. @ 230Vac 0.98 typ. @ 115Vac, 91.5% typ. @ 230Vac 88.0% typ. @ 115Vac, 91.5% typ. @ 230Vac Aax Inrush Current (Cold Start) 0.98 typ. @ 115Vac, 92.0% typ. @ 230Vac 0.98 typ. @ 115Vac, 91.5% typ. @ 230Vac 88.0% typ. @ 115Vac, 91.5% typ. @ 230Vac Aax Inrush Current (Cold Start) 0.98 typ. @ 115Vac, 92.0% typ. @ 230Vac 0.98 typ. @ 115Vac, 91.5% typ. @ 230Vac 91.5% typ. @ 230Vac Amax @ 230Vac 0.98 typ. @ 115Vac, 92.0% typ. @ 230Vac 0.98 typ. @ 115Vac, 91.5% typ. @ 230Vac 91.5% typ. @ 230Vac Construct Jimensions (L x W x D) 0.98 tg (2.16 lb) 0.98 tg (2.16 lb) 1.04 tg (2.29 lb) 1.04 tg (2.29 lb) Jiming Cable VDE Jougn (Zable (Sable	Input Frequency				47-63Hz			
mitclency at 100% Load 92.0% typ. @ 230Vac 91.5% typ. @ 230Vac 91.5% typ. @ 230Vac 91.5% typ. @ 230Vac Aax Inrush Current (Cold Start) 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac Power Factor 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac Power Factor 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac Power Factor 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac Power Factor Power Factor 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac Power Factor Power Factor Power Factor Power Factor Power Factor	Input Current							
Power Factor 0.98 typ.@115Vac, 0.95 typ.@230Vac 0.98 typ.@115Vac, 0.95 typ.@230Vac Leakage Current < 0.75mA @ 264Vac	Efficiency at 100% Load			51	51			
cackage Current < 0.75mA @ 264Vac AECHANICAL Aluminium Sase Cover / Chassis 220 x 68 x 38.8 mm (8.66" x 2.68" x 1.53") 228 x 68 x 38.8 mm (8.98" x 2.68" x 1.53") Jnit Weight 0.98 kg (2.16 lb) 0.98 kg (2.16 lb) 1.04 kg (2.29 lb) 1.04 kg (2.29 lb) Jnit Weight 0.98 kg (2.16 lb) 0.98 kg (2.16 lb) 1.04 kg (2.29 lb) 1.04 kg (2.29 lb) Cooling System Convertion total signature total signature total signature Soutput Cable VDE H05RN-F3G1.0mm² (Line: Brown, Neutral: Blue, PE: Green/Yellow) 1.04 kg (2.29 lb) Dutput Cable VDE H05RN-F2X1.5mm² (Positive: Red, Negative: Black) Total signature Output Cable VDE H05RN-F2X1.0mm² (Positive: White, Negative: Black) > 700,000 hrs > 700,000 hrs MTBF ^a > 700,000 hrs Storage Temperature -40°C to +70°C -40°C to +85°C -40°C to +85°C -40°C to +85°C -40°C to +85°C -50°C (4% / °C) -50°C so 55% RH (Nortor so 3000 m (0 to 9,840 ft)<	Max Inrush Current (Cold S	Start)	65A typ. @ 230Vac					
Accord All All <th< th=""><th>Power Factor</th><th></th><th colspan="5">0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac</th></th<>	Power Factor		0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac 0.98 typ. @ 115Vac, 0.95 typ. @ 230Vac					
Case Cover / Chassis Alumitation Dimensions (L x W x D) 220 x 68 x 38.8 mm (8.66" x 2.68" x 1.53") 228 x 68 x 38.8 mm (8.98" x 2.68" x 1.53") Dimensions (L x W x D) 0.98 kg (2.16 lb) 0.98 kg (2.16 lb) 1.04 kg (2.29 lb) 1.04 kg (2.29 lb) Unit Weight 0.98 kg (2.16 lb) 0.98 kg (2.16 lb) 0.98 kg (2.16 lb) 1.04 kg (2.29 lb) 1.04 kg (2.29 lb) Cooling System Convection Doutput Cable VDE Convection Dutput Cable VDE HO5RN-F3G1.0mm² (Line: Brown, Neutral: Blue, PE: Green/Yellow) Dimming Cable VDE HO5RN-F2x1.5mm² (Positive: Red, Negative: Black) Dimming Cable VDE > 700,000 hrs > 700,000 hrs MTBF ² > 700,000 hrs > 700,000 hrs > 700,000 hrs Storage Temperature > 900,000 hrs > 700,000 hrs > 700,000 hrs Power De-rating Storage Temperature -40°C to +85°C -20°C -20°C <th>Leakage Current</th> <th></th> <td colspan="6">< 0.75mA @ 264Vac</td>	Leakage Current		< 0.75mA @ 264Vac					
Dimensions (L x W x D) 220 x 68 x 38.8 mm (8.66" x 2.68" x 1.53") 228 x 68 x 38.8 mm (8.98" x 2.68" x 1.53") Dim Weight 0.98 kg (2.16 lb) 0.98 kg (2.16 lb) 1.04 kg (2.29 lb) 1.04 kg (2.29 lb) Cooling System Convection Convection Convection Dup t Cable VDE H05RN-F3G1.0mm² (Line: Brow). Neutral: Blue, PE: Green/Yellow) 1.04 kg (2.29 lb) 1.04 kg (2.29 lb) Output Cable VDE H05RN-F3G1.0mm² (Line: Brow). Neutral: Blue, PE: Green/Yellow) Totak (2.000 hc) Totak (2.000 hc) <thtotak (2.000="" hc)<="" th=""> <thtotak (2.000="" hc)<="" th=""></thtotak></thtotak>	MECHANICAL							
Jnit Weight 0.98 kg (2.16 lb) 0.98 kg (2.16 lb) 1.04 kg (2.29 lb) 1.04 kg (2.29 lb) Cooling System Convection nput Cable VDE H05RN-F3G1.0mm² (Line: Brown, Neutral: Blue, PE: Green/Yellow) Dumming Cable VDE H07RN-F2x1.5mm² (Positive: Red, Negative: Black) Dimming Cable VDE H05RN-F2x1.0mm² (Positive: White, Negative: Black) ATBF ² > 700,000 hrs > 700,000 hrs > 700,000 hrs > 700,000 hrs > 700,000 hrs NTRONMENT -40°C to +70°C Storage Temperature -40°C to +85°C Power De-rating > 60°C (4% / °C) Operating Humidity 5 to 95% RH (Non-Condensing) Operating Altitude 0 to 3,000m (0 to 9,840 ft)	Case Cover / Chassis				Aluminium			
Cooling System Convection Imput Cable VDE H05RN-F3G1.0mm² (Line: Brown, Neutral: Blue, PE: Green/Yellow) Output Cable VDE H05RN-F3G1.0mm² (Positive: Red, Negative: Black) Dimming Cable VDE H05RN-F2X1.5mm² (Positive: White, Negative: Black) MTBF ² > 700,000 hrs > 700,000 hrs > 700,000 hrs MTBF ? > 700,000 hrs > 700,000 hrs > 700,000 hrs Storage Temperature -40°C to +70°C -40°C to +85°C Power De-rating -60°C (4% / °C) -500°C (4% / °C) Operating Humidity 5 to 95% RH (Non-Condensing) -500°C (4% / °C) Operating Altitude 0 to 3,000m (0 to 9,840 ft) -500°C (50,840 ft)	Dimensions (L x W x D)		220 x 68 x 38.8 n	nm (8.66" x 2.68" x 1.53")	228 x 68 x 38.8	3 mm (8.98" x 2.68" x 1.53")		
VDE H05RN-F3G1.0mm² (Line: Brown, Neutral: Blue, PE: Green/Yellow) Output Cable VDE H05RN-F3G1.0mm² (Positive: Red, Negative: Black) Dimming Cable VDE H05RN-F2X1.0mm² (Positive: White, Negative: Black) MTBF ² > 700,000 hrs > 700,000 hrs > 700,000 hrs MTBF ? > 700,000 hrs > 700,000 hrs > 700,000 hrs > 700,000 hrs Storage Temperature - -40°C to +70°C -	Unit Weight		0.98 kg (2.16 lb)	0.98 kg (2.16 lb)	1.04 kg (2.29 lb)	1.04 kg (2.29 lb)		
VDE H07RN-F2x1.5mm² (Positive: Red, Negative: Black) Dimming Cable VDE MTBF ² > 700,000 hrs > 700,000 hrs > 700,000 hrs NVIRONMENT Operating Temperature -40°C to +70°C Cover De-rating Operating Humidity Operating Altitude Operating Altitude 0 to 3,000m (0 to 9,840 ft)	Cooling System			(Convection			
VDE H05RN-F2x1.0mm²(Positive: White, Negative: Blue) ATBF ² > 700,000 hrs > 700,000 hrs > 700,000 hrs ATBF ? > 700,000 hrs > 700,000 hrs > 700,000 hrs ENVIRONMENT -40°C to +70°C -40°C to +85°C Power De-rating -40°C to +85°C -40°C to +85°C Power De-rating Humidity 5 to 95% RH (Non-Condensing) -40°C to 9,840 ft)				H05RN-F3G1.0mm ² (Line: B	rown, Neutral: Blue, PE: Green/Ye	ellow)		
MTBF ² > 700,000 hrs > 700,000 hrs > 700,000 hrs > 700,000 hrs INVIRONMENT								
ENVIRONMENT Operating Temperature -40°C to +70°C 6torage Temperature -40°C to +85°C Power De-rating > 60°C (4% / °C) Operating Humidity Operating Altitude 0 to 3,000m (0 to 9,840 ft)	J	VDE						
Operating Temperature -40°C to +70°C Storage Temperature -40°C to +85°C Power De-rating > 60°C (4% / °C) Operating Humidity 5 to 95% RH (Non-Condensing) Operating Altitude 0 to 3,000m (0 to 9,840 ft)			> 700,000 hrs	> 700,000 hrs	> 700,000 hrs	> 700,000 hrs		
Storage Temperature -40°C to +85°C Sower De-rating > 60°C (4% / °C) Operating Humidity 5 to 95% RH (Non-Condensing) Operating Altitude 0 to 3,000m (0 to 9,840 ft)								
Power De-rating > 60°C (4% / °C) Operating Humidity 5 to 95% RH (Non-Condensing) Operating Altitude 0 to 3,000m (0 to 9,840 ft)								
Operating Humidity 5 to 95% RH (Non-Condensing) Operating Altitude 0 to 3,000m (0 to 9,840 ft)	. .							
Operating Altitude 0 to 3,000m (0 to 9,840 ft)	0							
Degree of Protection IP65 (LNE-12VUUUWAUU); IP67 (LNE-12VUUUWDUU)				,		-		
	Degree of Protection			IP65 (LNE-12VUUUWAI	LL); IP67 (LNE-12VLLLWDLL	(L		

Notes

1) 2) 3)

, For LNE-12V□□□WA□□ package type only. MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load). All parameters are specified at 25°C ambient temperature unless otherwise indicated.



LNE LED Driver 24V Output (North American AC Voltage)



LNE

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HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-305Vac
- Up to 93.5% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C •
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications •

GENERAL SPECIFICATIONS

OUTPUT	LNE-24V100W□A□	LNE-24V120W□A□	LNE-24V150W□A□	LNE-24V185W□A□		
Nominal Output Voltage	24V	24V	24V	24V		
LED System Voltage Range in CC Mode	12-24Vdc	12-24Vdc	12-24Vdc	12-24Vdc		
Output Voltage Adjustment Range ¹⁾	22.0-27.0V	22.0-27.0V	22.0-27.0V	22.0-27.0V		
Nominal Output Current	4.00A	5.00A	6.30A	7.80A		
Output Current Adjustment Range ¹⁾	2.00-4.00A	2.50-5.00A	3.15-6.30A	3.90-7.80A		
Output Power	96W	120W	151.2W	187.2W		
Line Regulation		± 0.5% (@	90-305Vac)			
Load Regulation		± 1% (@ 90-305	Vac, 0-95% load)			
PARD (20MHz)		< 150	ImVpp			
Hold-up Time		16ms typ. @ 115Vac & 230)Vac & 277Vac (100% load)			
INPUT						
Input Voltage Range		90-30	05Vac			
Input Frequency		47-6	63Hz			
Input Current	1.30A max. @ 115Vac, 0.65A max. @ 230Vac, 0.60A max. @ 277Vac	1.50A max. @ 115Vac, 0.70A max. @ 230Vac, 0.65A max. @ 277Vac	1.80A max. @ 115Vac, 0.85A max. @ 230Vac, 0.80A max. @ 277Vac	2.20A max. @ 115Vac, 1.00A max. @ 230Vac, 0.90A max. @ 277Vac		
Efficiency at 100% Load	92.0% typ. @ 115Vac, 93.0% typ. @ 230Vac & 277Vac	91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac & 277Vac	91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac & 277Vac	91.0% typ. @ 115Vac, 93.5% typ. @ 230Vac & 277Vac		
Max Inrush Current (Cold Start)		65A typ.	@ 230Vac			
Power Factor	0.98 typ. @ 115Vac, 0.95 typ.	@ 230Vac, 0.93 typ. @ 277Vac	0.98 typ. @ 115Vac, 0.95 typ.	@ 230Vac, 0.92 typ. @ 277Vac		
Leakage Current		< 0.75mA	@ 305Vac			
MECHANICAL						
Case Cover / Chassis		Alum	iinium			
Dimensions (L x W x D)	220 x 68 x 38.8 mm ((8.66" x 2.68" x 1.53")	228 x 68 x 38.8 mm	(8.98" x 2.68" x 1.53")		
Unit Weight	0.98 kg (2.16 lb)	0.98 kg (2.16 lb)	1.04 kg (2.29 lb)	1.04 kg (2.29 lb)		
Cooling System		Conv	ection			
Input Cable UL		,	Neutral: Blue, PE: Green/Yellow)			
Output Cable UL			ive: Red, Negative: Black)			
Dimming Cable UL	700.000 hm		ive: White, Negative: Blue)	> 700.000 hrs		
MTBF ²⁾ ENVIRONMENT	> 700,000 hrs	> 700,000 hrs	> 700,000 hrs	> 700,000 Hrs		
Operating Temperature Storage Temperature	-40°C to +70°C					
Power De-rating	-40°C to +85°C > 60°C (4% / °C)					
Operating Humidity			Ion-Condensing)			
Operating Altitude			(0 to 9,840 ft)			
Degree of Protection						
Degree of Flotection	IP65 (LNE-24VDDDWADD); IP67 (LNE-24VDDDWDDD)					

Notes

1) 2) 3)

, For LNE-24V□□□WA□□ package type only. MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load). All parameters are specified at 25°C ambient temperature unless otherwise indicated.

LNE LED Driver 24V Output (International AC Voltage)



LNE

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HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-264Vac
- Up to 93.5% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C •
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications

GENERAL SPECIFICATIONS

OUTPUT		LNE-24V100W□C□	LNE-24V120W□C□	LNE-24V150WDCD	LNE-24V185W□C□		
Nominal Output Voltage		24V	24V	24V	24V		
LED System Voltage Rang CC Mode	ge in	12-24Vdc	12-24Vdc	12-24Vdc	12-24Vdc		
Output Voltage Adjustmer Range ¹⁾	nt	22.0-27.0V	22.0-27.0V	22.0-27.0V	22.0-27.0V		
Nominal Output Current		4.00A	5.00A	6.30A	7.80A		
Output Current Adjustmer Range ¹⁾	nt	2.00-4.00A	2.50-5.00A	3.15-6.30A	3.90-7.80A		
Output Power		96W	120W	151.2W	187.2W		
Line Regulation			± 0.5%	(@ 90-264Vac)			
Load Regulation			± 1% (@ 90-2	64Vac, 0-95% load)			
PARD (20MHz)			< 1	50mVpp			
Hold-up Time			16ms typ. @ 115Va	ac & 230Vac (100% load)			
INPUT							
Input Voltage Range			90	-264Vac			
Input Frequency			4	7-63Hz			
Input Current		1.30A max. @ 115Vac, 0.65A max. @ 230Vac	1.50A max. @ 115Vac, 0.70A max. @ 230Vac	1.80A max. @ 115Vac, 0.85A max. @ 230Vac	2.20A max. @ 115Vac, 1.00A max. @ 230Vac		
Efficiency at 100% Load		92.0% typ. @ 115Vac, 93.0% typ. @ 230Vac	91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac	91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac	91.0% typ. @ 115Vac, 93.5% typ. @ 230Vac		
Max Inrush Current (Cold	Start)	65A typ. @ 230Vac					
Power Factor		0.98 typ. @ 115	/ac, 0.95 typ. @ 230Vac	0.98 typ. @ 115	Vac, 0.95 typ. @ 230Vac		
Leakage Current		< 0.75mA @ 264Vac					
MECHANICAL							
Case Cover / Chassis			Al	uminium			
Dimensions (L x W x D)		220 x 68 x 38.8 m	nm (8.66" x 2.68" x 1.53")	228 x 68 x 38.8 m	228 x 68 x 38.8 mm (8.98" x 2.68" x 1.53")		
Unit Weight		0.98 kg (2.16 lb)	0.98 kg (2.16 lb)	1.04 kg (2.29 lb)	1.04 kg (2.29 lb)		
Cooling System			Co	nvection			
Input Cable	VDE		(wn, Neutral: Blue, PE: Green/Yello	w)		
Output Cable	VDE			ositive: Red, Negative: Black)			
Dimming Cable	VDE	700.0001		ositive: White, Negative: Blue)	700.000 /		
		> 700,000 hrs	> 700,000 hrs	> 700,000 hrs	> 700,000 hrs		
Operating Temperature		-40°C to +70°C					
Storage Temperature		-40°C to +85°C					
Power De-rating				C (4% / °C)			
Operating Humidity				(Non-Condensing)			
Operating Altitude			,				
Degree of Protection		IP65 (LNE-24V□□□WA□□); IP67 (LNE-24V□□□WD□□)					

Notes

- 1) 2) 3)

, For LNE-24V□□□WA□□ package type only. MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load). All parameters are specified at 25°C ambient temperature unless otherwise indicated.



LNE LED Driver 36V Output (North American AC Voltage)



LNE

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HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-305Vac
- Up to 93.5% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C •
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications •

GENERAL SPECIFICATIONS

OUTPUT		LNE-36V100W□A□	LNE-36V120WDAD	LNE-36V150WDAD	LNE-36V185W□A□	
Nominal Output Voltage		36V	36V	36V	36V	
LED System Voltage Range CC Mode	e in	18-36Vdc	18-36Vdc	18-36Vdc	18-36Vdc	
Output Voltage Adjustment Range ¹⁾	t	33.0-40.0V	33.0-40.0V	33.0-40.0V	33.0-40.0V	
Nominal Output Current		2.65A	3.40A	4.20A	5.20A	
Output Current Adjustment Range ¹⁾	t	1.325-2.65A	1.70-3.40A	2.10-4.20A	2.60-5.20A	
Output Power		95.4W	122.4W	151.2W	187.2W	
Line Regulation			± 0.5% (@	90-305Vac)		
Load Regulation		± 0.5% (@ 90-30	5Vac, 0-95% load)	± 1% (@ 90-305	Vac, 0-95% load)	
PARD (20MHz)			< 200	mVpp		
Hold-up Time			16ms typ. @ 115Vac & 230)Vac & 277Vac (100% load)		
INPUT						
Input Voltage Range			90-30	05Vac		
Input Frequency			47-6	63Hz		
Input Current		1.30A max. @ 115Vac, 0.65A max. @ 230Vac, 0.60A max. @ 277Vac	1.50A max. @ 115Vac, 0.70A max. @ 230Vac, 0.65A max. @ 277Vac	1.80A max. @ 115Vac, 0.85A max. @ 230Vac, 0.80A max. @ 277Vac	2.20A max. @ 115Vac, 1.00A max. @ 230Vac, 0.90A max. @ 277Vac	
Efficiency at 100% Load		91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac, 92.5% typ. @ 277Vac	91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac & 277Vac	91.0% typ. @ 115Vac, 93.5% typ. @ 230Vac, 93.0% typ. @ 277Vac	91.0% typ. @ 115Vac, 93.5% typ. @ 230Vac & 277Vac	
Max Inrush Current (Cold S	Start)		65A typ.	@ 230Vac		
Power Factor		0.98 typ. @ 115Vac, 0.95 typ.	@ 230Vac, 0.93 typ. @ 277Vac	0.98 typ. @ 115Vac, 0.95 typ.	@ 230Vac, 0.92 typ. @ 277Vac	
Leakage Current			< 0.75mA	@ 305Vac		
MECHANICAL						
Case Cover / Chassis			Alum	iinium		
Dimensions (L x W x D)		220 x 68 x 38.8 mm	(8.66" x 2.68" x 1.53")	228 x 68 x 38.8 mm	(8.98" x 2.68" x 1.53")	
Unit Weight		0.98 kg (2.16 lb)	0.98 kg (2.16 lb)	1.04 kg (2.29 lb)	1.04 kg (2.29 lb)	
Cooling System			Conv	ection		
Input Cable	UL		SJTW 18AWGX3C (Line: Brown,	Neutral: Blue, PE: Green/Yellow)		
	UL		(ive: Red, Negative: Black)		
J	UL			ive: White, Negative: Blue)		
MTBF ²⁾		> 700,000 hrs	> 700,000 hrs	> 700,000 hrs	> 700,000 hrs	
ENVIRONMENT						
Operating Temperature			-40°C t	o +70°C		
Storage Temperature		-40°C to +85°C				
Power De-rating			> 60°C ((4% / °C)		
Operating Humidity			5 to 95% RH (N	lon-Condensing)		
Operating Altitude			0 to 3,000m	(0 to 9,840 ft)		
Degree of Protection			IP65 (LNE-36VDDDWADD);	; IP67 (LNE-36V□□□WD□□)		
otes						

1) 2) 3)

, For LNE-36V□□□WA□□ package type only. MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load). All parameters are specified at 25°C ambient temperature unless otherwise indicated.

LNE LED Driver 36V Output (International AC Voltage)



LNE

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HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-264Vac
- Up to 93.5% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C •
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications •

GENERAL SPECIFICATIONS

OUTPUT		LNE-36V100W□C□	LNE-36V120W□C□	LNE-36V150WDCD	LNE-36V185WDCD		
Nominal Output Voltage		36V	36V	36V	36V		
LED System Voltage Range CC Mode	e in	18-36Vdc	18-36Vdc	18-36Vdc	18-36Vdc		
Output Voltage Adjustment Range ¹⁾	t	33.0-40.0V	33.0-40.0V	33.0-40.0V	33.0-40.0V		
Nominal Output Current		2.65A	3.40A	4.20A	5.20A		
Output Current Adjustment Range ¹⁾	t	1.325-2.65A	1.70-3.40A	2.10-4.20A	2.60-5.20A		
Output Power		95.4W	122.4W	151.2W	187.2W		
Line Regulation			± 0.5% (@	90-264Vac)			
Load Regulation		± 0.5% (@ 90-264	4Vac, 0-95% load)	± 1% (@ 90-264	Vac, 0-95% load)		
PARD (20MHz)			< 200	mVpp			
Hold-up Time			16ms typ. @ 115Vac 8	& 230Vac (100% load)			
INPUT							
Input Voltage Range			90-26	64Vac			
Input Frequency			47-6	3Hz			
Input Current		1.30A max. @ 115Vac, 0.65A max. @ 230Vac	1.50A max. @ 115Vac, 1.80A max. @ 115Vac, 0.70A max. @ 230Vac 0.85A max. @ 230Vac		2.20A max. @ 115Vac, 1.00A max. @ 230Vac		
Efficiency at 100% Load		91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac	91.5% typ. @ 115Vac, 93.0% typ. @ 230Vac				
Max Inrush Current (Cold S	Start)		65A typ.	@ 230Vac			
Power Factor		0.98 typ. @ 115Va	c, 0.95 typ. @ 230Vac	0.98 typ. @ 115Va	c, 0.95 typ. @ 230Vac		
Leakage Current			< 0.75mA	@ 264Vac			
MECHANICAL							
Case Cover / Chassis			Alum	inium			
Dimensions (L x W x D)		220 x 68 x 38.8 mm	1 (8.66" x 2.68" x 1.53")	228 x 68 x 38.8 mm	n (8.98" x 2.68" x 1.53")		
Unit Weight		0.98 kg (2.16 lb)	0.98 kg (2.16 lb)	1.04 kg (2.29 lb)	1.04 kg (2.29 lb)		
Cooling System			Conve	ection			
Input Cable	VDE		H05RN-F3G1.0mm ² (Line: Brown				
Output Cable	VDE		1	ive: Red, Negative: Black)			
Dimming Cable	VDE			ive: White, Negative: Blue)	700 000 1		
		> 700,000 hrs	> 700,000 hrs	> 700,000 hrs	> 700,000 hrs		
ENVIRONMENT			40%				
Operating Temperature Storage Temperature			-40°C to	5 +70°C 5 +85°C			
Power De-rating				4% / °C)			
Operating Humidity			,	on-Condensing)			
Operating Altitude			0 to 3,000m	0,			
Degree of Protection							
Degree of Protection		IP65 (LNE-36V□□□WA□□); IP67 (LNE-36V□□□WD□□)					

Notes

1) 2) 3)

, For LNE-36V□□□WA□□ package type only. MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load). All parameters are specified at 25°C ambient temperature unless otherwise indicated.



LNE LED Driver 48V Output (North American AC Voltage)



LNE

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HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-305Vac
- Up to 94% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C •
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications •

GENERAL SPECIFICATIONS

OUTPUT		LNE-48V100W□A□	LNE-48V120W□A□	LNE-48V150W□A□	LNE-48V185W□A□		
Nominal Output Voltage		48V	48V	48V	48V		
LED System Voltage Range CC Mode	e in	24-48Vdc	24-48Vdc	24-48Vdc	24-48Vdc		
Output Voltage Adjustment Range ¹⁾	t	43.0-53.0V	43.0-53.0V	43.0-53.0V	43.0-53.0V		
Nominal Output Current		2.00A	2.50A	3.20A	3.90A		
Output Current Adjustment Range ¹⁾	t	1.00-2.00A	1.25-2.50A	1.60-3.20A	1.95-3.90A		
Output Power		96W	120W	153.6W	187.2W		
Line Regulation			± 0.5% (@	90-305Vac)			
Load Regulation			± 0.5% (@ 90-305	5Vac, 0-95% load)			
PARD (20MHz)			< 200	mVpp			
Hold-up Time			16ms typ. @ 115Vac & 230	Wac & 277Vac (100% load)			
INPUT							
Input Voltage Range			90-30)5Vac			
Input Frequency			47-6	3Hz			
Input Current		1.30A max. @ 115Vac, 0.65A max. @ 230Vac, 0.60A max. @ 277Vac	1.50A max. @ 115Vac, 0.70A max. @ 230Vac, 0.65A max. @ 277Vac	1.80A max. @ 115Vac, 0.85A max. @ 230Vac, 0.80A max. @ 277Vac	2.20A max. @ 115Vac, 1.00A max. @ 230Vac, 0.90A max. @ 277Vac		
Efficiency at 100% Load		92.0% typ. @ 115Vac, 93.0% typ. @ 230Vac & 277Vac	92.0% typ. @ 115Vac, 93.5% typ. @ 230Vac & 277Vac	91.5% typ. @ 115Vac, 94.0% typ. @ 230Vac & 277Vac	91.5% typ. @ 115Vac, 94.0% typ. @ 230Vac & 277Vac		
Max Inrush Current (Cold S	Start)		65A typ.	@ 230Vac			
Power Factor		0.98 typ. @ 115Vac, 0.95 typ.	@ 230Vac, 0.93 typ. @ 277Vac	0.98 typ. @ 115Vac, 0.95 typ.	@ 230Vac, 0.92 typ. @ 277Vac		
Leakage Current			< 0.75mA	@ 305Vac			
MECHANICAL							
Case Cover / Chassis			Alum	inium			
Dimensions (L x W x D)		220 x 68 x 38.8 mm (8.66" x 2.68" x 1.53")	228 x 68 x 38.8 mm	(8.98" x 2.68" x 1.53")		
Unit Weight		0.98 kg (2.16 lb)	0.98 kg (2.16 lb)	1.04 kg (2.29 lb)	1.04 kg (2.29 lb)		
Cooling System			Conv	ection			
Input Cable	UL		, , ,	Neutral: Blue, PE: Green/Yellow)			
Output Cable	UL			ive: Red, Negative: Black)			
Dimming Cable	UL	> 700.000 hrs	> 700.000 hrs	ve: White, Negative: Blue) > 700.000 hrs	> 700.000 hrs		
ENVIRONMENT		> 700,000 Hrs	> 700,000 Hrs	> 700,000 Hrs	> 700,000 Hrs		
Operating Temperature		-40°C to +70°C					
Storage Temperature							
Power De-rating		-40°C to +85°C > 60°C (4% / °C)					
Operating Humidity			`	on-Condensing)			
Operating Altitude				(0 to 9,840 ft)			
Degree of Protection							
Degree of Flotection		IP65 (LNE-48V□□□WA□□); IP67 (LNE-48V□□□WD□□)					

Notes

1) 2) 3)

, For LNE-48V□□□WA□□ package type only. MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load). All parameters are specified at 25°C ambient temperature unless otherwise indicated.

LNE LED Driver 48V Output (International AC Voltage)



LNE

HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-264Vac
- Up to 94% efficiency
- 6kV common mode & 4kV differential mode surge immunity •
- Active PFC. Meets IEC/EN 61000-3-2, Class C •
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications •

GENERAL SPECIFICATIONS

OUTPUT		LNE-48V100W□C□	LNE-48V120W□C□	LNE-4	8V150W□C□	LNE-48V185W□C□	
Nominal Output Voltage		48V	48V	48V		48V	
LED System Voltage Rang CC Mode	e in	24-48Vdc	24-48Vdc	24-48\	/dc	24-48Vdc	
Output Voltage Adjustmen Range ¹⁾	it	43.0-53.0V	43.0-53.0V	43.0-5	3.0V	43.0-53.0V	
Nominal Output Current		2.00A	2.50A	3.20A		3.90A	
Output Current Adjustmen Range ¹⁾	ıt	1.00-2.00A	1.25-2.50A	1.60-3	.20A	1.95-3.90A	
Output Power		96W	120W	153.6V	V	187.2W	
Line Regulation			± 0.5%	‰ (@ 90-264V	ac)		
Load Regulation			± 0.5% (@ 90	-264Vac, 0-9	95% load)		
PARD (20MHz)			<	200mVpp			
Hold-up Time			16ms typ. @ 115	Vac & 230Va	c (100% load)		
INPUT							
Input Voltage Range			ç	0-264Vac			
Input Frequency				47-63Hz			
Input Current		1.30A max. @ 115Vac, 0.65A max. @ 230Vac	1.50A max. @ 115Vac, 0.70A max. @ 230Vac		max. @ 115Vac, max. @ 230Vac	2.20A max. @ 115Vac, 1.00A max. @ 230Vac	
Efficiency at 100% Load		92.0% typ. @ 115Vac, 93.0% typ. @ 230Vac	92.0% typ. @ 115Vac, 93.5% typ. @ 230Vac		typ. @ 115Vac, typ. @ 230Vac	91.5% typ. @ 115Vac, 94.0% typ. @ 230Vac	
Max Inrush Current (Cold S	Start)		65A	typ. @ 230Va	C		
Power Factor		0.98 typ. @ 115\	/ac, 0.95 typ. @ 230Vac		0.98 typ. @ 115Vad	c, 0.95 typ. @ 230Vac	
Leakage Current			< 0.7	5mA @ 264V	ac		
MECHANICAL							
Case Cover / Chassis			1	Aluminium			
Dimensions (L x W x D)		220 x 68 x 38.8 m	ım (8.66" x 2.68" x 1.53")		228 x 68 x 38.8 mm	(8.98" x 2.68" x 1.53")	
Unit Weight		0.98 kg (2.16 lb)	0.98 kg (2.16 lb)	1.04 kg	g (2.29 lb)	1.04 kg (2.29 lb)	
Cooling System			C	Convection			
Input Cable	VDE		H05RN-F3G1.0mm ² (Line: Bi				
Output Cable	VDE		H07RN-F2x1.5mm ² (I				
Dimming Cable	VDE		H05RN-F2x1.0mm ² (F		, 0 ,		
MTBF ²⁾		> 700,000 hrs	> 700,000 hrs	> 700,	000 hrs	> 700,000 hrs	
ENVIRONMENT							
Operating Temperature		-40°C to +70°C					
Storage Temperature				°C to +85°C			
Power De-rating)°C (4% / °C			
Operating Humidity				H (Non-Cond	0,		
Operating Altitude				00m (0 to 9,8	,		
Degree of Protection			IP65 (LNE-48V□□□WA□□); IP67 (LNE-48V□□□WD□□)				

Notes

- 1) 2) 3)
- , For LNE-48V□□□WA□□ package type only. MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load). All parameters are specified at 25°C ambient temperature unless otherwise indicated.



LNE LED Driver 54V Output (North American AC Voltage)



LNE

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HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-305Vac
- Up to 94% efficiency
- 6kV common mode & 4kV differential mode surge immunity
- Active PFC. Meets IEC/EN 61000-3-2, Class C •
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications

GENERAL SPECIFICATIONS

OUTPUT		LNE-54V150WDAD	LNE-54V185W□A□								
Nominal Output Voltage		54V	54V								
LED System Voltage Rang CC Mode	je in	24-54Vdc	24-54Vdc								
Output Voltage Adjustmen Range ¹⁾	nt	49.0-58.0V	49.0-58.0V								
Nominal Output Current		2.80A	3.45A								
Output Current Adjustmen Range ¹⁾	nt	1.40-2.80A	1.725-3.45A								
Output Power		151.2W	186.3W								
Line Regulation		± 0.5% (@ 90-305Vac)									
Load Regulation		± 0.5% (@ 90-305	5Vac, 0-95% load)								
PARD (20MHz)		< 200	mVpp								
Hold-up Time		16ms typ. @ 115Vac & 230	Vac & 277Vac (100% load)								
INPUT											
Input Voltage Range		90-305Vac									
Input Frequency		47-63Hz									
Input Current		1.80A max. @ 115Vac, 0.85A max. @ 230Vac, 0.80A max. @ 277Vac	2.20A max. @ 115Vac, 1.00A max. @ 230Vac, 0.90A max. @ 277Vac								
Efficiency at 100% Load		91.5% typ. @ 115Vac, 94.0% typ. @ 230Vac & 277Vac	91.5% typ. @ 115Vac, 94.0% typ. @ 230Vac & 277Vac								
Max Inrush Current (Cold	Start)	65A typ.	@ 230Vac								
Power Factor		0.98 typ. @ 115Vac, 0.95 typ.	@ 230Vac, 0.92 typ. @ 277Vac								
Leakage Current		< 0.75mA	@ 305Vac								
MECHANICAL											
Case Cover / Chassis		Alum	inium								
Dimensions (L x W x D)		228 x 68 x 38.8 mm (8.98" x 2.68" x 1.53")								
Unit Weight		1.04 kg (2.29 lb)	1.04 kg (2.29 lb)								
Cooling System		Convection									
Input Cable	UL	SJTW 18AWGX3C (Line: Brown, Neutral: Blue, PE: Green/Yellow)									
Output Cable	UL	SJTW 14AWGX2C (Positive: Red, Negative: Black)									
Dimming Cable	UL	SJTW 18AWGX2C (Positive: White, Negative: Blue)									
		> 700,000 hrs	> 700,000 hrs								
ENVIRONMENT											
Operating Temperature		-40°C to +70°C									
Storage Temperature		-40°C to +85°C									
Power De-rating		> 60°C (4% / °C)									
Operating Humidity			on-Condensing)								
Operating Altitude		0 to 3,000m (0 to 9,840 ft)									
Degree of Protection		IP65 (LNE-54V□□□WA□□); IP67 (LNE-54V□□□WD□□)									

Notes

1) 2) 3)

, For LNE-54V□□□WA□□ package type only. MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load). All parameters are specified at 25°C ambient temperature unless otherwise indicated.

LNE LED Driver 54V Output (International AC Voltage)



LNE

HIGHLIGHTS & FEATURES

- Universal AC input voltage range 90-264Vac
- Up to 94% efficiency
- 6kV common mode & 4kV differential mode surge immunity •
- Active PFC. Meets IEC/EN 61000-3-2, Class C •
- Adjustable voltage & current; dimming option available
- IP65 or IP67 assembly for indoor and outdoor applications

GENERAL SPECIFICATIONS

OUTPUT		LNE-54V150W□C□		LNE-54V185W□C□									
Nominal Output Voltage		54V		54V									
LED System Voltage Rang CC Mode	ge in	24-54Vdc		24-54Vdc									
Output Voltage Adjustmer Range ¹⁾	nt	49.0-58.0V		49.0-58.0V									
Nominal Output Current		2.80A		3.45A									
Output Current Adjustmer Range ¹⁾	nt	1.40-2.80A	1.725-3.45A										
Output Power		151.2W 186.3W											
Line Regulation			± 0.5% (@ 90-264Vac)										
Load Regulation			± 0.5% (@ 90-264	4Vac, 0-95% load)									
PARD (20MHz)			< 200	ImVpp									
Hold-up Time			16ms typ. @ 115Vac	& 230Vac (100% load)									
INPUT													
Input Voltage Range		90-264Vac											
Input Frequency		47-63Hz											
Input Current		1.80A max. @ 115Vac, 0.85A max. @ 230Vac	2.20A max. @ 115Vac, 1.00A max. @ 230Vac										
Efficiency at 100% Load		91.5% typ. @ 115Vac, 94.0% typ. @ 230Vac	91.5% typ. @ 115Vac, 94.0% typ. @ 230Vac										
Max Inrush Current (Cold	Start)		65A typ.	@ 230Vac									
Power Factor			0.98 typ. @ 115Vac	, 0.95 typ. @ 230Vac									
Leakage Current			< 0.75mA	@ 264Vac									
MECHANICAL													
Case Cover / Chassis			Alum	inium									
Dimensions (L x W x D)			228 x 68 x 38.8 mm (8.98" x 2.68" x 1.53")										
Unit Weight		1.04 kg (2.29 lb) 1.04 kg (2.29 lb)											
Cooling System		Convection											
Input Cable	VDE	H05RN-F3G1.0mm ² (Line: Brown, Neutral: Blue, PE: Green/Yellow)											
Output Cable	VDE			tive: Red, Negative: Black)									
Dimming Cable	VDE	H05RN-F2x1.0mm ² (Positive: White, Negative: Blue)											
		> 700,000 hrs		> 700,000 hrs									
ENVIRONMENT			40%0 +	7000									
Operating Temperature		-40°C to +70°C											
Storage Temperature		-40°C to +85°C											
Power De-rating		> 60°C (4% / °C) 5 to 95% RH (Non-Condensing)											
Operating Humidity													
Operating Altitude													
Degree of Protection		IP65 (LNE-54V□□WA□□); IP67 (LNE-54V□□□WD□□)											

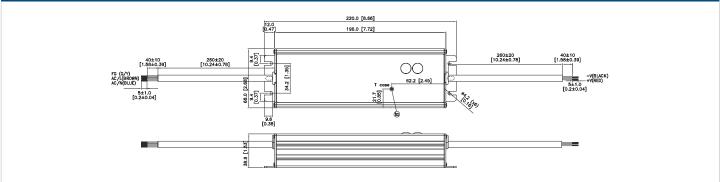
Notes

- 1) 2) 3)
- , For LNE-54V□□□WA□□ package type only. MTBF as per Telcordia SR-332 (I/P: 115Vac, O/P: 100% load). All parameters are specified at 25°C ambient temperature unless otherwise indicated.

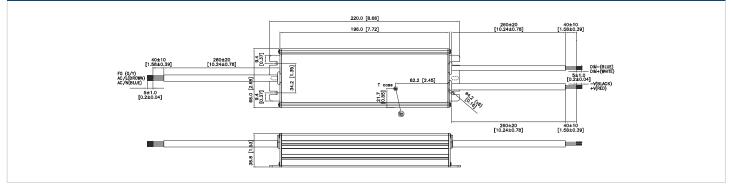


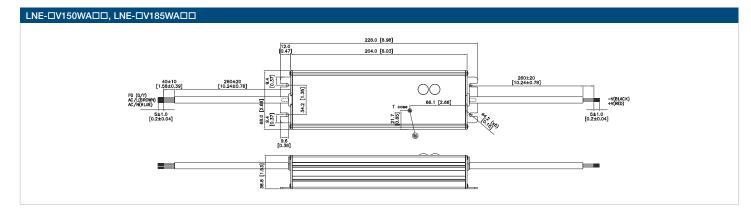
Mechanical Drawings LED Driver

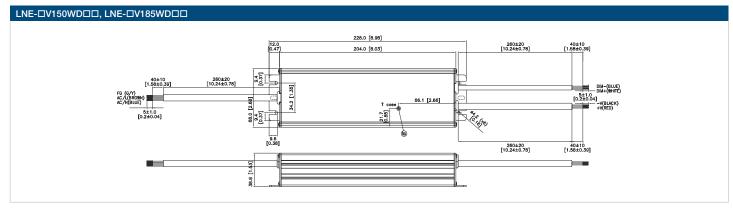
LNE-DV100WADD, LNE-DV120WADD



LNE-DV100WDDD, LNE-DV120WDDD







*Units in mm [inch]

Standards & Approvals LED Driver

	Э	CB Scheme to IEC 60950-1	CB Scheme to IEC 61347-1, IEC 61347-2-13	SIQ or TUV or NEMKO to EN 60950-1	ENEC to EN 61347-1, EN 61347-2-13, EN 62384	Compliance to UL 60950-1	NL 8750	CSA C22.2 No. 60950-1	ATEX EN 60079-15	CSA C22.2 No. 213 and ANSI/ISA-12.12.09	CCC (China) to GB19519.1, GB19510.14	KC (Korea) to KC61347-1, KC61347-2-13, KC62384	PSE (Japan) to J61347-1, J61347-2-13	RoHS Directive 2011/65/EU	SEMI F47	EN 61000-3-2 (PFC), Class C	EN 61000-3-3 (Flicker)	EN 61547 (Immunity)	EN 55024 (Immunity)	EN 55015 (Emissions)	EN 55022 Class B (Emissions)	FCC Title 47 Class B (Emissions)
LED Driver																						
LNE-12V100WAAA							•									•	•	•	•	•	•	•
LNE-12V100WACA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-12V100WDAA							•									•	•	•	•	•	•	•
LNE-12V100WDCA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-12V120WAAA							٠									•	•	•	•	•	•	•
LNE-12V120WACA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-12V120WDAA							٠									•	•	•	•	•	•	•
LNE-12V120WDCA	٠		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-12V150WAAA							٠									•	•	•	•	•	•	•
LNE-12V150WACA	٠		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-12V150WDAA							٠									•	•	•	•	•	•	•
LNE-12V150WDCA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-12V185WAAA							٠									•	•	•	•	•	•	•
LNE-12V185WACA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-12V185WDAA							٠									•	•	•	•	•	•	•
LNE-12V185WDCA	٠		•		•						•	•	•	٠		•	•	•	•	•	•	•
LNE-24V100WAAA							•									•	•	•	•	•	•	•
LNE-24V100WACA	٠		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-24V100WDAA							•									•	•	•	•	•	•	•
LNE-24V100WDCA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-24V120WAAA							•									•	•	•	•	•	•	•
LNE-24V120WACA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-24V120WDAA							•									•	•	•	•	•	•	•
LNE-24V120WDCA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-24V150WAAA							•									•	•	•	•	•	•	•
LNE-24V150WACA	•		•		•						•	•	•	•		•	•	•	•	•		
LNE-24V150WDAA							•									•	•	•	•	•	•	•
LNE-24V150WDCA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-24V185WAAA							•									•	•	•	•	•	•	•
LNE-24V185WACA	•		•		•		6				•	•	•	•		•	•	•	•	•	•	•
LNE-24V185WDAA	6						•					6				•	•	•	•	•	•	•
LNE-24V185WDCA	•		•		•						•	•	•	•		•	•	•	•	•	•	•

Standards & Approvals LED Driver

	CE	CB Scheme to IEC 60950-1	CB Scheme to IEC 61347-1, IEC 61347-2-13	SIQ or TUV or NEMKO to EN 60950-1	ENEC to EN 61347-1, EN 61347-2-13, EN 62384	Compliance to UL 60950-1	UL 8750	CSA C22.2 No. 60950-1	ATEX EN 60079-15	CSA C22.2 No. 213 and ANSI/ISA-12.12.09	CCC (China) to GB19519.1, GB19510.14	KC (Korea) to KC61347-1, KC61347-2-13, KC62384	PSE (Japan) to J61347-1, J61347-2-13	RoHS Directive 2011/65/EU	SEMI F47	EN 61000-3-2 (PFC), Class C	EN 61000-3-3 (Flicker)	EN 61547 (Immunity)	EN 55024 (Immunity)	EN 55015 (Emissions)	EN 55022 Class B (Emissions)	FCC Title 47 Class B (Emissions)
LED Driver																						
LNE-36V100WAAA							٠									٠	•	•	٠	٠	٠	•
LNE-36V100WACA	٠		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-36V100WDAA							•									•	•	•	•	•	•	•
LNE-36V100WDCA	٠		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-36V120WAAA							•									•	•	•	•	•	•	•
LNE-36V120WACA	٠		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-36V120WDAA							٠									•	•	•	٠	•	•	•
LNE-36V120WDCA	•		•		•						•	•	•	•		•	•	•	•	٠	•	•
LNE-36V150WAAA							٠									•	•	•	٠	٠	٠	•
LNE-36V150WACA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-36V150WDAA							٠									٠	•	٠	٠	٠	٠	•
LNE-36V150WDCA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-36V185WAAA							•									•	•	•	•	•	•	•
LNE-36V185WACA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-36V185WDAA							•									•	•	•	•	•	•	•
LNE-36V185WDCA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-48V100WAAA							٠									•	•	•	٠	٠	٠	•
LNE-48V100WACA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-48V100WDAA							•									•	•	•	•	•	•	•
LNE-48V100WDCA	٠		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-48V120WAAA							٠									٠	•	•	٠	٠	٠	•
LNE-48V120WACA	٠		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-48V120WDAA							٠									٠	•	•	٠	٠	٠	•
LNE-48V120WDCA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-48V150WAAA							٠									٠	•	•	٠	٠	٠	•
LNE-48V150WACA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-48V150WDAA							٠									٠	•	•	٠	•	•	•
LNE-48V150WDCA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-48V185WAAA							•									•	•	•	•	•	•	•
LNE-48V185WACA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-48V185WDAA							٠									٠	•	•	•	•	•	•
LNE-48V185WDCA	٠		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-54V150WAAA							٠									•	•	•	•	•	•	•
LNE-54V150WACA	٠		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-54V150WDAA							•									•	•	•	•	•	•	•
LNE-54V150WDCA	٠		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-54V185WAAA							•									•	•	•	•	•	•	•
LNE-54V185WACA	•		•		•						•	•	•	•		•	•	•	•	•	•	•
LNE-54V185WDAA							•									•	•	•	•	•	•	•
LNE-54V185WDCA	•		•		•						•	•	•	•		•	•	•	•	•	•	•

Compliance

Notes

Warranty

Delta warrants that the products ("Products") sold in this catalog will be free of defects in material and workmanship within the warranty period. The warranty does not apply to Products which have been subjected to abuse, misuse, accident, neglect, unauthorized and/or improper installation, operation, use, maintenance, repair or alteration, or accident of unusual deterioration or degradation of the Products or parts thereof due to physical environment beyond the requirements of the Product specifications.

Attention

- Delta will do our utmost in ensuring the accuracy of all information provided in the catalog and datasheets that are officially released and published. However, there may be instance where discrepancy occurs between the catalog and the datasheets. When such case happens, kindly refer to **www.DeltaPSU.com** for the latest catalog and datasheets or the datasheets shall take precedence over the catalog information.
- In our constant pursuit for product and quality excellence to fulfill market and customer demands, Delta shall reserve the rights to revise and update any information in this catalog without prior notification.

EMC Directives

At Delta, all of our products are designed to meet the highest quality standards. All national and international safety certifications including EMC directives are conducted by qualified and independent laboratories. For EMC directives' compliance, the power supplies are tested to ensure compliance as a stand-alone product. Power supplies like the panel mount and open frame types are typically considered component power supply. Therefore, Delta cannot guarantee the system which is installed with Delta's component power supply can meet the related EMC directives. Customers are advised to contact the system manufacturer for confirmation.

Availability

Products with "New" tab are slated for official release with immediate effect, while products with "Coming Soon" tab will be available within the next two months from this catalog's publication month (Refer to cover page). Kindly contact your local Delta distributor for availability, ordering and delivery details. You may also get in touch with us via the Feedback Form on **www.deltapsu.com/feedback**.



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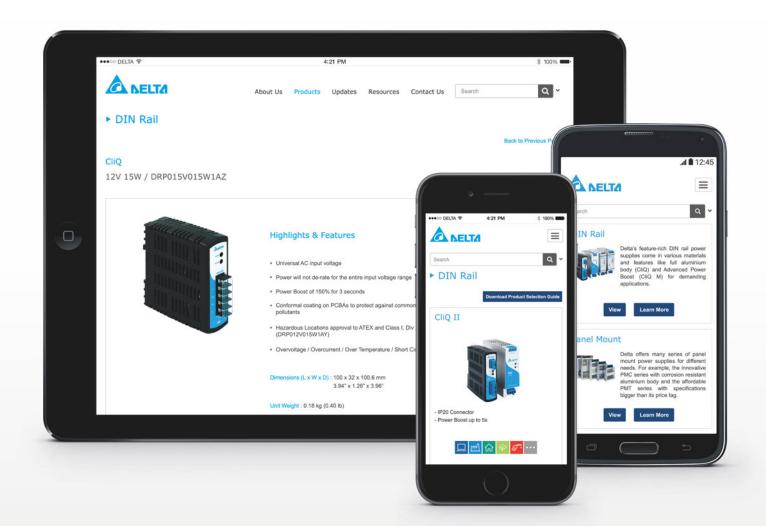
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