



LUMAWISE ENDURANCE N ENHANCED BASE

NEMA BASE AC/DC POWER MANAGEMENT

JUMP START STREET LIGHTING CONTROL PROJECTS

LUMAWISE Endurance N enhanced base is a lighting control base assembly which provides AC power switching and DC power supplies necessary for complex control node solutions, creating a platform to de-risk project schedules and cost of design changes of NEMA/ANSI street and outdoor lighting control solutions.

LUMAWISE ENDURANCE N ENHANCED BASE DE-RISKS PROJECT SCHEDULES AND COST OF DESIGN CHANGES OF NEMA/ANSI STREET AND OUTDOOR LIGHTING CONTROL SOLUTIONS. THE ENHANCED BASE TAKES OUR LIGHTING CONTROL BASE ASSEMBLY TO THE NEXT LEVEL OF PERFORMANCE BY PROVIDING AC POWER SWITCHING AND DC POWER SUPPLIES

ELECTRICAL

- CuAC

MATERIALS

- Housing: Polybutylene terephthalate (PBT)
- Dimming contacts: Copper alloy gold plated
- Power contacts: Copper alloy tin plated
- Gasket: Vinyl-nitrile foam
- O-Ring: Silicone rubber
- RoHS compliant

SPECIFICATIONS

- Application: [114-133085](#)
- Product: [108-133085](#)

KEY FEATURES

- Standard NEMA/ANSI streetlight interface
- Universal AC input range
- Isolated 24V DC output for ballast control communications
- Isolated 5V and 3.3V DC outputs for customer circuits
- Low voltage signal interface to LED light fixture
- Integrated over current and surge protection
- Long life relay with zero-cross switching for AC load control
- Designed for compliance with UL 773, ANSI C136.41 and FCC Title 47 part 15

APPLICATIONS

- Street and roadway lighting control
- Commercial & campus outdoor lighting management
- Smart cities control networks
- Smart grid to smart cities bridging

ENVIRONMENTAL

- Operating temperature: -40°C to +85°C
- Relative humidity:
 - Operating: 15% to 96%
 - Non-condensing environment
- Altitude
 - Operating: -15M to + 2,000M
 - Non-Operating: -15M to + 14,000M

3

DC output voltages

ANSI

ANSI C136.41 compliance

UL

UL773 compliant

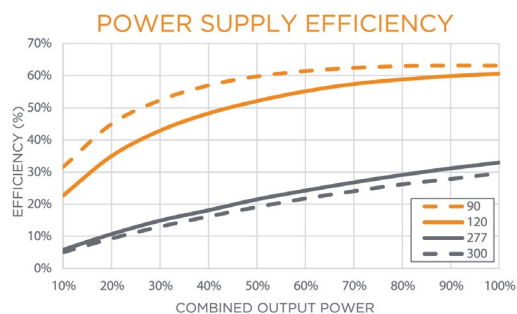
ELECTRICAL

Parameter	Value/Note
Input Voltage Range	90VAC - 300VAC for 110/120, 230/240 and 277 VAC nominal sources
Input Frequency	47-63 Hz for 50/60 Hz nominal sources
Maximum AC current	5A based upon the relay ratings
DC Power Supplies	
Dimming	24 VDC at 50 mA maximum
Communications	5 VDC at 1000 mA maximum
Auxiliary	3.3 VDC at 500 mA maximum
Surge Protection	ANSI C62.41 6 kV, 3 kA combination wave surge protection
Power Consumption	<1W @ 120VAC, < 2W @ 277 VAC
Fail Mode*	On or Off

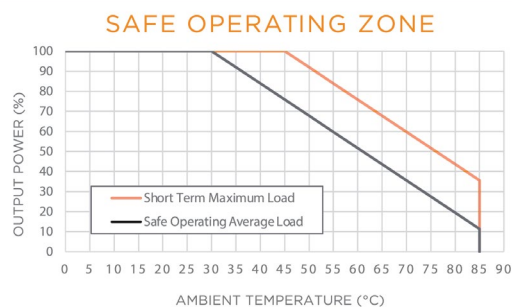
PRODUCT FEATURES



EFFICIENCY



TEMPERATURE DERATING



LUMAWISE ENDURANCE N ENHANCED BASE

		Typical		
Output Specifications		24V	5V	3.3V
Output Power		1.2 W	5 W	1.65 W
Line Regulation		<10%		<5%
Load Regulation – 120V, 30C, 10% to 100%		2.5%	5%	
Load Regulation – 277V, 30C, 10% to 100%		2.5%	5%	
Temp Regulation – 120V		1.5%		
Temp Regulation – 277V		1.5%		
Transient Response – 120V, 30C		<1.5 V	<0.5 V	
Transient Response – 277V, 30C		<1.5 V	<0.5 V	
Ripple – 120V, 30C		300 mv		
Ripple – 277V, 30C		300 mv		
Hold Up Time – 120V		20 ms		
Hold Up Time – 277V		250 ms		
Start Up Time		20 ms		

Input Specifications	Typical
Source Voltage	90 to 300 VAC
Source Frequency	50hz for x-2314786-x 60hz for 2314786-x
Inrush Current – 120V	6 A
Inrush Current – 277V	13 A
Leakage Current	< 2 mA
Surge Protection	ANSI C62.41 6kV, 3 kA Combination Wave
Standby Power Consumption – 120V	0.7 W
Standby Power Consumption – 277V	1.0 W
Efficiency	60% (120V, 100% load)

EMC and Immunity	
Conducted Emissions	FCC Title 47, Part 15, Class B
Radiated Emissions	FCC Title 47, Part 15, Class B
Harmonic Current	EN61000-3-2 Class A
Electrostatic Discharge (ESD)	JS-001, IEC 61000-4-2

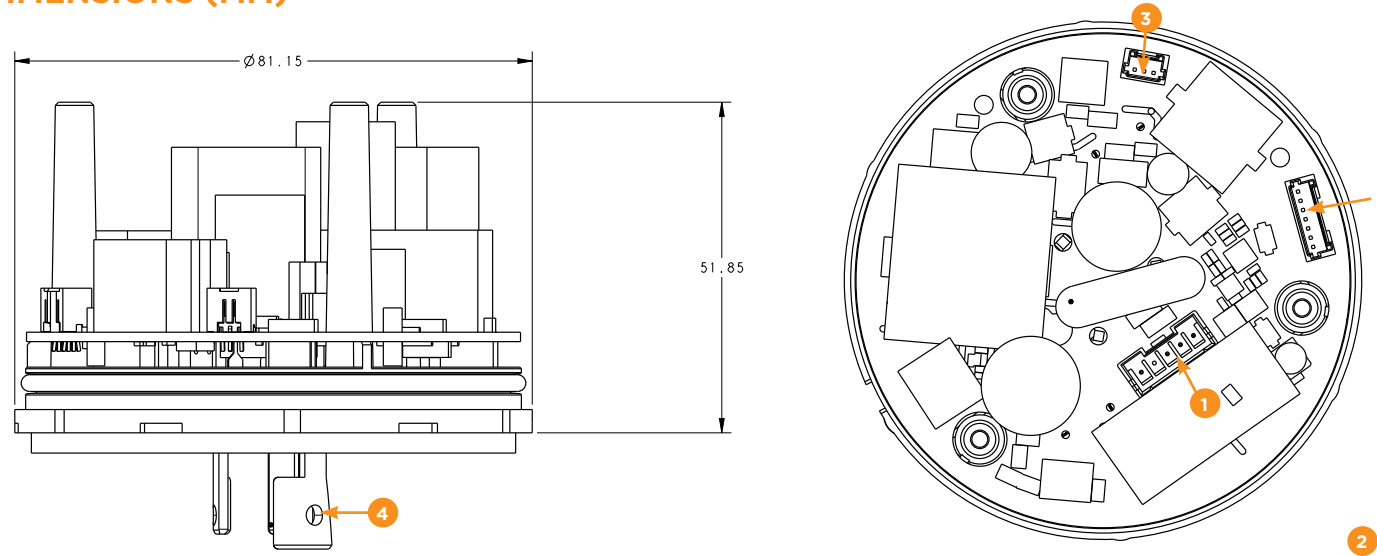
Environmental	
Storage Temperature	-40°C to +105°C
Operating Temperature	-40°C to +85°C (See 114-133085)
Relative Humidity	15% – 96%, Non-condensing
Altitude	-15M to 2000M

Switched Load	
Max AC Current	8A Resistive 5A Electronic Ballast @ 120V 3A Electronic Ballast @ 277V
Endurance	C136.10 Long Life
Zero-Cross Switching	Yes (See 114-133085)

PRODUCT SELECTION INFORMATION

Part Number	Description	Frequency (Hz)	Fail Mode
2314786-1	LUMAWISE Endurance N Enhanced Base	60	ON
2314786-2	LUMAWISE Endurance N Enhanced Base	60	OFF
1-2314786-1	LUMAWISE Endurance N Enhanced Base	50	ON
1-2314786-2	LUMAWISE Endurance N Enhanced Base	50	OFF

DIMENSIONS (MM)



COMPATIBLE PRODUCTS

Item	Enhanced Base Interface	Description	Part Number
1	Energy Metering Connection	EMC Cable Assembly	2318044-1
2	Luminaire Control Connection	LCC Cable Assembly, 7 position	2318043-1
3	Management Power Connection	MPC Cable Assembly, 3 position	2318043-2
4	ANSI C136.41-2013 Interface	LUMAWISE Dimming Receptacle	2213362
			2213627

Contact Our Product Team

We make it easy to connect with our experts and are ready to provide the support you need. Visit te.com/support to chat with a Product Information Specialist.

te.com/lumawise-endurance-n-enhance-base

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