

EULP96AS-1BMC-S3

Product Feature

- · Supports tri-mode dimming (0/1-10V active signal, adjustable resistor, PWM signal)
- \cdot Single-channel constant current output with multiple selectable current levels
- · Wide input voltage range: 120VAC \sim 347VAC
- \cdot Full load output when the signal is floating, allowing it to function as a power supply
- \cdot Short-circuit protection, overload protection, over-voltage protection
- Smooth dimming, flicker-free
- \cdot The output current ratio is adjustable in 3 levels, enabling the adjustment of the luminaire's color temperature.
- · 50,000-hour lifespan @ Tc=85 $^\circ\!\!\mathbb{C}$, 5-year warranty
- · Safety according to UL8750 &UL 1310



Technical Parameters

Model	EULP96AS-1BMC-S3								
Input	Efficiency	≥87%, full load							
	Rated Voltage	120-347VAC							
	Frequency Range(Hz)	50/60Hz							
	Current	1.1A@120VAC 0.44A@277VAC 0.36A@347VAC							
	Power Factor	≥0.95@120VAC, ≥0.95@277VAC, ≥0.9@347VAC , full load							
	THD(full load)	≤10%@120VAC, ≤15%@347VAC , full load							
	Inrush Current	Cold start, 15A@120VAC 100us, 36A@277VAC 100us, 47A@347VAC 100us							
	Switch	left	middle	right					
	Output Current	2400mA	2200mA	2000mA					
	Voltage Range	30-40VDC	30-43VDC	30-48VDC					
	Output Power	96W	95W	96W					
	Factory default current	2000mA							
	Current	1							
Output	Current Tolerance	±5%							
	Ripple factor	<3%							
	Standby power	1.5W							
	No load power	1.5W							
	No load output voltage	59VDC max							
	Auxiliary power supply	12VDC, 100mA, 1.2W							
	Start-up Time	\leq 0.75s, @120Vac (When the light begins to shine)							
	Dimming Type	0-10V							
Function	Dimming Range	1%-100%							
T unction	Dimming curve	Linearity							
	Flicker	Flicker free							
	Short circuit	No-output, Auto-Recover when fault removed							
Protection	Overload	Current reduction hiccup protection with automatic recovery after fault clearance.							
	Overvoltage	Current reduction hiccup protection with automatic recovery after fault clearance.							
	Surge	L-N: 2.5kV L-N-PG: 2.5kV (ringwave)							
Safety&	Withstand Voltage	I/P-O/P:2000Vac/1min/<5mA I/P-PG:1500Vac/1min/<5mA 0/P-PG:500Vac/1min/<5mA 0/P-Signal:500Vac/1min/<5mA							
EMC	Safety Standards	UL8750 &UL 1310							
	EMI	FCC Part 15 Class B @120v FCC Part 15 Class A @277v							

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Others	Working Temp.	-20℃-55℃(-4-131°F)			
	Storage Temp., Humidity	-40℃-80℃(-40-176℉), 5%-90%RH			
	tc	85 ℃ (185°F)			
	Material	Metal			
	IP Rating	IP20			
	Lifetime	50,000h@tc85 ℃(185°F)			
	Warranty Condition	5years			
	Switch Cycle	>25,000 times			
	Dimension	380×30×25.5mm (14.96×1.18×1 Inch) (L*W*H)			
	Packing(weight)	TBD			

Dimension: mm (Inch)



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Current Selection Table

Switch 1	left	middle	right
Output Current	2400mA	2200mA	2000mA
Output Voltage	30-40VDC	30-43VDC	30-48VDC

Switch 2	left	middle	right
Blue	100%	50%	0%
White	0%	50%	100%

Color temperature Selection Table

Wiring Diagram



Dimming Curve





Efficiency vs Load Curve





THD vs Load Curve



Life-time vs. case temperature



The life-time of the led driver is shown in the figure above (calculated based on the 90% survival rate).

The relation of $% \left({{{\mathbf{T}}_{{\mathbf{T}}}}_{{\mathbf{T}}}} \right)$ to the temperature depends also on the luminaire design.

Max. quantity of drivers per miniature circuit breaker

Specification item		Value	Value	Value		Condition			
Inrush current Ipeak		15A (120V)	36A (277V)	47A (347V)		Input Voltage120V/277/347V			
Inrush current Twidth		100 us (120V)	100 us (277V)	100 us (347V)		Inpu	Input Voltage120V/277/347V, measured ta 50% Ipeak		
МСВ	Input Voltage 120V Drivers	Input Voltage 277V Drivers	Input Voltage 347V Drivers	MCB	Input Voltage 12 Drivers	0V	Input Voltage 277V Drivers	Input Voltage 347V Drivers	
B10	9pcs	22pcs	18pcs	C10	9pcs		22pcs	27pcs	
B13	11pcs	29pcs	23pcs	C13	11pcs		29pcs	36pcs	
B16	14pcs	36pcs	29pcs	C16	14pcs		36pcs	44pcs	
B20	18pcs	45pcs	36pcs	C20	18pcs		45pcs	55pcs	
				D16	14pcs		36pcs	44pcs	



Installation Precautions



Please do not stack the products. The distance between two products should be>12cm so as not to affect heat dissipation and the lifespan of the products.

Cautions

This product must be installed and adjusted by a qualified professional.						
1	Confirmation of installation conditions	 Waterproof and Protection: Install in a suitable location according to the waterproof and protection requirements of the power supply. Products without waterproof function should be protected from direct sunlight and rain. When installing outdoors, please use a waterproof box for protection. Heat dissipation requirements: The drive power supply should avoid exposure to high temperature environments. Please ensure that the working environment temperature is within the recommended range. To ensure proper heat dissipation of the drive power supply, a well ventilated area should be selected for installation. Good heat dissipation conditions can help extend product lifespan. 				
2	Power check	· Before use, check the product parameters and confirm that the output voltage and current of the LED power supply meet the requirements				
3	Safe wiring	 Use cables that meet the specifications to ensure that the cross-section of the wire matches the requirements of the driving power supply. Solid cables typically measuring 0.75-2.5 mm², (Please refer to the silk screen printing or wiring diagram in the instruction manual for specific wire diameter requirements). If the power supply (metal casing) is installed on a grounded lighting component or equipment, the power supply needs to be grounded. 				
4	Wiring confirmation	· Before power on debugging, ensure that the wiring is secure and avoid poor contact to prevent unstable current or equipment damage.				
5	Repair suggestions	· If the product malfunctions, please do not repair it without authorization. If you have any questions, please contact the supplier or sales team for assistance.				

** The contents of this manual are updated without prior notice. If the function of the product you are using is inconsistent with the instructions, the function of the product shall prevail. Please contact us if you have any questions .

Warranty Agreement

- 1. Warranty periods from the date of delivery : 5 years.
- 2. Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

The following situations are not covered by the free warranty or replacement service:

- 1. Exceeding the warranty period.
- 2. Damage caused by human factors such as high voltage, overload, and improper operation.
- 3. The appearance of the product is severely damaged or deformed.
- 4. Normal wear and tear or aging during regular product use.
- 5. Damage caused by natural disasters or force majeure factors.
- 6. The quality inspection label of the product is damaged (QC PASS).
- 7. No contract or valid invoice proof signed with EUCHIPS has been provided.
- *Remedies: Repair or replacement is the only remedy provided by EUCHIPS to the customer, and EUCHIPS shall not be liable for incidental damages arising from repair or replacement, unless within the scope of applicable law.
- %Adjustment of Warranty Terms: EUCHIPS reserves the right to modify or adjust the warranty terms, which shall be published in writing.