



LEADING THE ADVANCEMENT OF POWER CONVERSION

AC-DC Converter and LED Driver Selection Guide



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Your Reliable Partner

NetPower is committed to meeting customer requirements and increasing customer satisfaction through the continual improvement of its products and the quality management system.

- Working with great expertise and create value for our customers
- Pursue excellence continuously, dedicated to develop power conversion products and solutions with high performance and reliability
- Focus on global market development
- Lifecycle customer service and technical support
- Passionate for innovative technologies, leading the advancement of power conversion

AC-DC Converters

Features

- Wide input voltage range: 85-305VAC / 100-430VDC
- Output over-current, over-voltage and short-circuit protections
- Isolation voltage: 3000VAC
- UL 60950-1 2nd edition recognized
- Operating temperature: -40°C~+70°C



Series	Input Voltage	Power	Output Voltage (V)	Efficiency	Isolation	Package	Size (mm)
AMS	85-305VAC 100-430VDC	5W	3.3, 5, 9, 12, 15, 24	84%	3000VAC	DIP	55.0 x 45.0 x 21.0
		10W	3.3, 5, 9, 12, 15, 24	82%	3000VAC	DIP	55.0 x 45.0 x 21.0
		15W	3.3, 5, 9, 12, 15, 24, 48	85%	3000VAC	DIP	62.0 x 45.0 x 22.5
		20W	3.3, 5, 9, 12, 15, 24	85%	3000VAC	DIP	70.0 x 48.0 x 23.5
		25W	3.3, 5, 9, 12, 15, 24, 48	87%	3000VAC	DIP	70.0 x 48.0 x 23.5

Power Factor Correction Converters

Features

- High efficiency and excellent thermal performance
- Input under-voltage, over-voltage, output over-voltage, over-current, short-circuit and over-temperature protections
- 2250VDC input / output to baseplate isolation
- Design to meet UL 62368-1
- Different temperature grades available



Series	Input Voltage	Power	Efficiency	Output Voltage	Power Factor	Size
PFCL	85-140VAC	550W	92%	270VDC	0.99	Half brick
PFCH	176-264VAC	700W	96%	390VDC	0.99	Half brick
PFCU	85-264VAC	500W	96%	390VDC	0.99	Half brick

Typical Application Circuit

PFC modules are essential for AC-DC power supply and high power applications, sometimes an AC line filter is needed to attenuate the differential and common-mode voltage and current ripples created by the PFC module in consideration of EMI requirements. Refer to below circuit configuration for guidelines of current share and typical application.

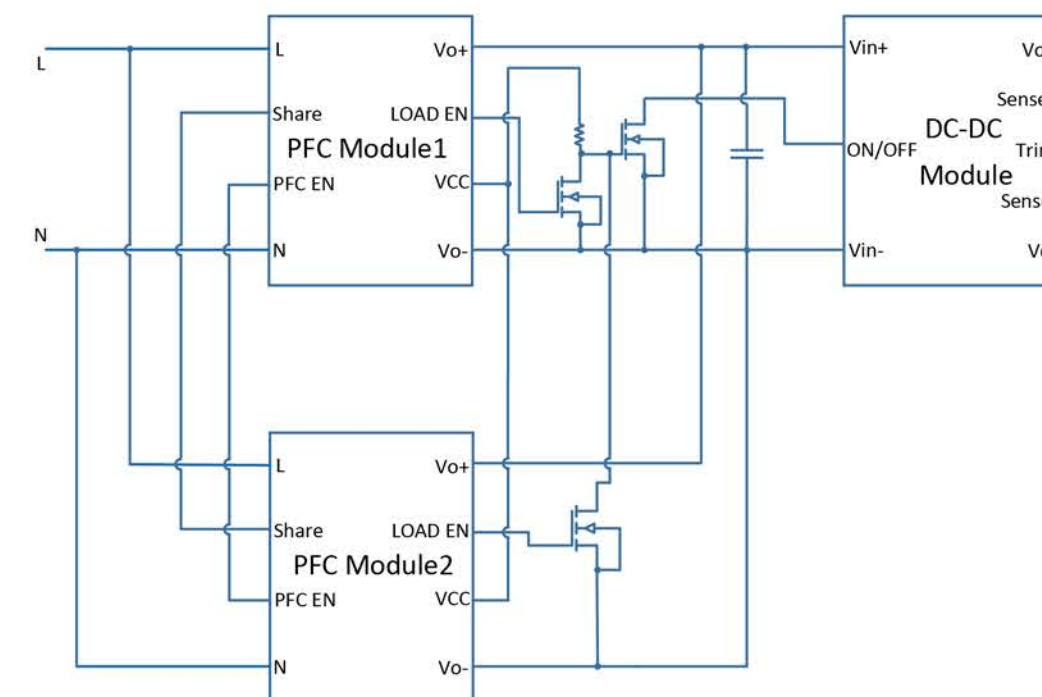


Figure 1: Circuit Configuration for Active Current Share

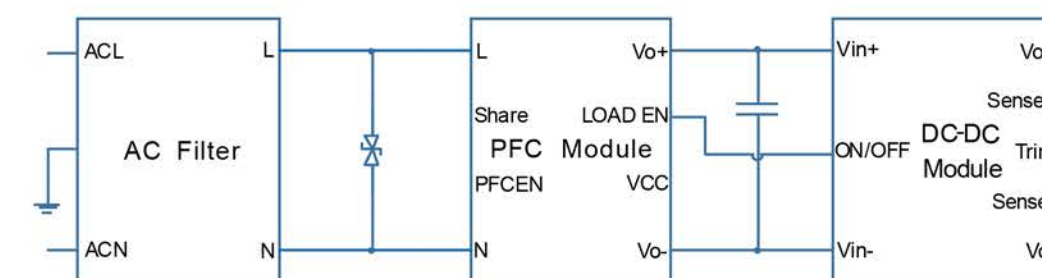


Figure 2: Typical Application of the PFC Module

LED Drivers

High Performance

- High lightning protection
- High efficiency
- High PF
- IP 67 enclosure

Intelligent

- IR programming
- Software programming
- Off-line programming
- One-button programming

Core Advantages

Users-defined

- 2-in-1 Dimming
- 3-in-1 Dimming
- Built-in potentiometer

Product Serialization

- Applications: Street light, industrial light, landscape, building, tracking light...

LHA Series (249-528VAC Input)

Features

- Universal AC input range
- Compact design
- Protection against abnormal conditions
- 3-in-1 dimmable (M types): 0~10VDC / PWM signal / Timer
- High efficiency and high reliability
- UL 8750 recognized
- IP67 design for indoor and outdoor applications
- Suitable for dry / damp / wet locations

Applications

- Suitable for LED architecture lighting, industrial lighting, flood lighting, roadway lighting, decorative lighting and sign lighting



Series	Input Voltage	Power	Output Voltage	Output Current	Efficiency	Power Factor	Size (mm)
LHA	249-528VAC	60W	18-36V	0.21-2.10A	86%	0.91	207.0 x 68.0 x 39.0
			20-62V	0.14-1.40A	86%	0.91	
			45-90V	0.10-0.95A	83%	0.91	
		105W	18-36V	0.42-4.20A	91%	0.93	227.0 x 68.0 x 43.5
			20-62V	0.30-3.00A	91%	0.93	
			60-150V	0.14-1.40A	91%	0.93	
		150W	18-36V	0.50-5.00A	91%	0.95	247.0 x 68.0 x 43.5
			20-62V	0.375-3.75A	91%	0.95	
			60-108V	0.21-2.10A	91%	0.95	
			80-214V	0.11-1.10A	91%	0.95	
		200W	18-36V	0.66-6.60A	91%	0.95	257.0 x 68.0 x 43.5
			20-62V	0.50-5.00A	91%	0.95	
			60-120V	0.28-2.80A	91%	0.95	
			120-200V	0.14-1.40A	91%	0.95	
			190-305V	0.10-1.00A	91%	0.95	

LUB Series (90-305VAC Input)

Features

- Constant power and programmable output
- Universal AC input voltage
- Low ripple and THD
- Built-in active PFC to reduce energy loss
- High surge protection for lightening & surge damages
- IP67 protection for indoor and outdoor applications
- CLO function
- Work log function (BLACK BOX)
- Offline programmable
- 3-in-1 dimming: 0-10VDC, PWM, Timing control, Dim to off

Applications

- Suitable for roadway lighting, horticulture lighting, industrial lighting, architecture lighting, stadium lighting, area lighting



Series	Input Voltage	Power	Output Voltage	Output Current	Efficiency	Power Factor	Size (mm)
LUB *	90-305VAC	75W	20-41V	0.27-2.67A	89%	0.96	128.6 x 68.0 x 37.0
			38-62V	0.19-1.88A	89%	0.96	
			54-108V	0.11-1.05A	90%	0.96	
		105W	20-41V	0.35-3.50A	90%	0.96	153.6 x 68.0 x 37.0
			38-62V	0.25-2.50A	91%	0.96	
			50-100V	0.14-1.40A	91%	0.96	
		150W	75-150V	0.11-1.05A	92%	0.96	173.6 x 68.0 x 37.0
			20-41V	0.54-5.40A	91%	0.96	
			38-62V	0.36-3.60A	91%	0.96	
		200W	54-108V	0.21-2.10A	91%	0.96	193.6 x 68.0 x 39.0
			50-143V	0.15-1.50A	92%	0.96	
			75-214V	0.11-1.05A	92%	0.96	
		240W	20-41V	0.67-6.70A	91%	0.96	208.6 x 68.0 x 39.0
			38-62V	0.50-5.00A	92%	0.96	
			40-96V	0.30-3.00A	93%	0.96	
		320W	70-143V	0.21-2.10A	93%	0.96	232.0 x 98.0 x 42.0
			96-191V	0.15-1.50A	94%	0.96	
			143-286V	0.11-1.05A	94%	0.96	
			20-41V	0.75-7.50A	92%	0.96	
			38-62V	0.57-5.71A	92%	0.96	
			29-86V	0.42-4.20A	93%	0.96	
			85-171V	0.21-2.10A	93.5%	0.96	
			114-229V	0.15-1.50A	93.5%	0.96	
			171-343V	0.11-1.05A	93.5%	0.96	
			20-41V	1.0-10.00A	92.0%	0.96	
			38-62V	0.75-7.50A	93.0%	0.96	
			50-143V	0.32-3.20A	93.5%	0.96	
			120-230V	0.21-2.11A	93.5%	0.96	
			235-457V	0.11-1.10A	93.5%	0.96	

LUB 480W & 600W series will be released soon

LTA Series (90-305VAC Input)

Features

- Universal AC input range
- Compact design
- Protection against abnormal conditions
- 2-in-1 dimmable: 0~10VDC / PWM dimming
- High efficiency and high reliability
- UL 8750 recognized
- IP65 design for indoor and outdoor applications

Applications

- Suitable for industrial lighting
- Suitable for LED patio lighting, stage lighting, projection lighting and other lighting applications



Series	Input Voltage	Power	Output Voltage	Output Current	Efficiency	Power Factor	Size (mm)
LTA	90-305VAC	60W	24-40V	1.00-1.90A	88%	0.96	115.0 x 115.0 x 64.2
			27-54V	1.10-1.50A	88%	0.96	
		120W	24-40V	2.00-3.75A	89%	0.97	130.0 x 130.0 x 74.1
			27-54V	1.50-2.85A	90%	0.97	
			40-68V	1.20-2.15A	91%	0.97	
		160W	24-38V	2.90-5.00A	88%	0.97	146.0 x 146.0 x 74.1
			27-54V	2.10-3.80A	89%	0.97	
			40-68V	1.70-2.85A	89%	0.97	
		200W	24-38V	3.70-6.25A	91%	0.98	146.0 x 146.0 x 74.1
			27-54V	2.60-4.80A	91%	0.98	
			40-68V	2.00-3.60A	92%	0.98	
		240W	24-38V	4.40-7.50A	91%	0.97	176.2 x 176.2 x 74.4
			27-54V	3.00-5.72A	92%	0.97	
			40-68V	2.50-4.20A	92%	0.97	



LSA Series (90-305VAC Input)

Features

- Universal AC input voltage: 90~305VAC
- Constant voltage output
- High power factor>0.96
- Surge protection: 4KV line-line, 6KV line-earth
- Over-voltage, over-temperature, short-circuit, over current protections
- IP67 design for indoor and outdoor applications
- Suitable for dry / damp / wet locations

Applications

- Suitable for landscape lighting



Series	Input Voltage	Power	Output Voltage	Output Current	Efficiency	Power Factor	Size (mm)
LSA	90-305VAC	35W	12V	0-2.90A	85%	0.96	199.0 x 42.5 x 34.5
			24V	0-1.46A	87%	0.96	
			36V	0-0.97A	87%	0.96	
			48V	0-0.73A	88%	0.96	
		50W	12V	0-4.17A	85%	0.96	199.0 x 42.5 x 34.5
			24V	0-2.08A	88%	0.96	
			36V	0-1.39A	89%	0.96	
			48V	0-1.04A	89%	0.96	
		75W	12V	0-6.25A	89%	0.96	164.0 x 68.0 x 39.0
			24V	0-3.13A	87%	0.96	
			36V	0-2.08A	87%	0.96	
			48V	0-1.56A	87%	0.96	
		100W	12V	0-8.33A	91%	0.96	178.0 x 68.0 x 39.0
			24V	0-4.17A	91%	0.96	
			36V	0-2.78A	92%	0.96	
			48V	0-2.08A	92%	0.96	
		150W	12V	0-12.5A	90%	0.96	207.0 x 68.0 x 39.0
			24V	0-6.25A	91%	0.96	
			36V	0-4.17A	91%	0.96	
			48V	0-3.13A	91%	0.96	
		200W	12V	0-16.67A	91%	0.96	232.0 x 68.0 x 43.5
			24V	0-8.33A	92%	0.96	247.0 x 68.0 x 43.5
			36V	0-5.56A	92%	0.96	
			48V	0-4.17A	92%	0.96	234.0 x 98.0 x 40.0
		320W	12V	0-22.00A	91%	0.97	
			24V	0-13.33A	92%	0.96	
			36V	0-8.90A	92%	0.96	
			48V	0-6.67A	92%	0.97	

NetPower Sales Channels



For more information about NetPower and its products, please visit www.netpowercorp.com or contact with sales@netpowercorp.com