

# LPS Series 10W to 90W AC-DC DIN Rail Power Supplies



## Key Features

- 5, 12 & 24 VDC
- Universal Input: 85-264VAC / 120-370VDC
- High Efficiency
- Short Circuit Protection
- Internal Input Filter
- IP20 Protection Rated
- Class 2



## Technical Specification

Model	LPS-1-010-24DC	LPS-1-024-24DC	LPS-1-030-5DC	LPS-1-040-12DC
Input Voltage	85-264VAC / 120-370VDC			
Output Wattage	10W	24W	30W	40W
Output Voltage	24VDC	24VDC	5VDC	12VDC
Output Current	0.42A	1A	6A	3.33A
Efficiency	84%		78%	86%
<b>General Specification</b>				
Approval	cURus - Class 2			
Isolation Voltage	3000VAC/4242VDC			
Isolation Resistance	100MΩ @ 500VDC			
Ambient Temperature	-30 to +70°C (refer to derating curve)			
Derating	(50 to 70°C) 2.5%/°C			
Storage Temperature	-40 to +85°C			
Relative Humidity	20 to 95% RH			
Cooling	Free air convection			
Dimensions	92 x 23 x 100mm		92 x 41 x 100mm	
Weight	140g	150g	280g	
Case Material	Plastic			
<b>Input Specifications</b>				
Rated Input Voltage	85-264VAC / 120-370VDC			
Line Frequency	50/60Hz			
Inrush Current (115 / 230VAC)	35 / 70A		30 / 60A	
<b>Output Specifications</b>				
Output Voltage Accuracy	+1%			
Minimum Load	0%			
Line Regulation	±1%			
Load Regulation	±5%			
Turn On Time	500ms			
Voltage Fall Time	150ms			
Voltage Rise Time	30ms			
Hold Up Time (115 / 230VAC)	30 / 30ms			
Ripple & Noise	150mVp-p		80mVp-p	120mVp-p
Voltage Trim Range	21.6-28.8VDC		4.5-5.75VDC	21.6-28.8VDC
DC ON & LOW Indicator (Green & Red LED)	18-21.6VDC		3.5-4.5VDC	18-21.6VDC
<b>Control &amp; Protection</b>				
Rated Overload Protection	> 105%-150%			
Over Voltage Protection	27.6-32.4VDC		6.25-7.25VDC	15.6-18VDC
Output Short Circuit	Hiccup Mode			

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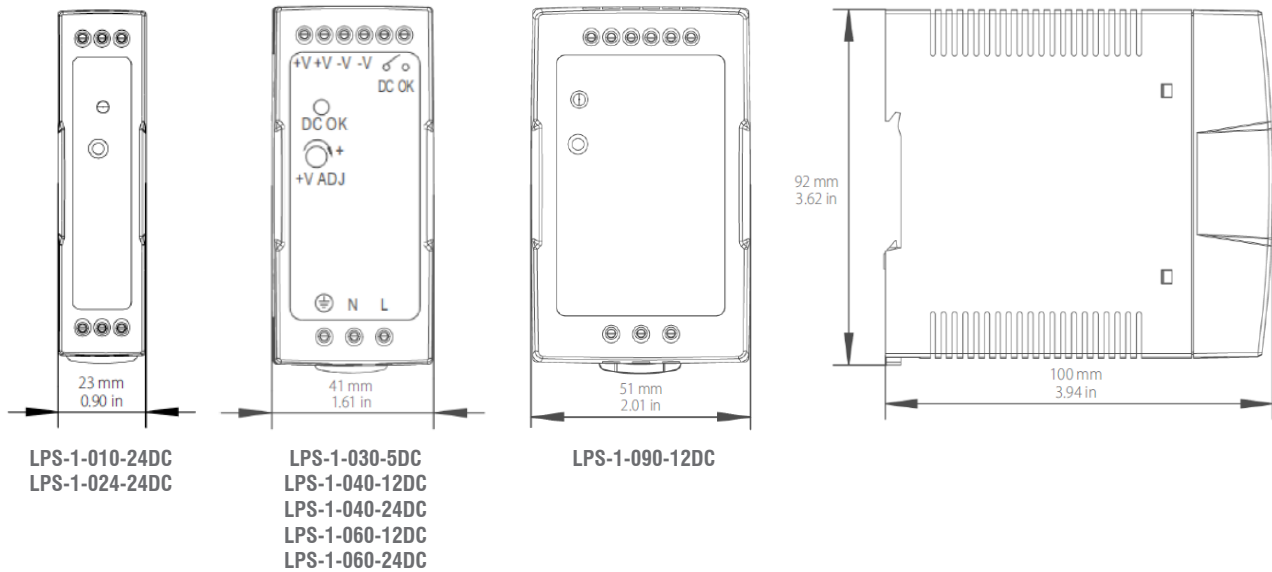


## Technical Specification

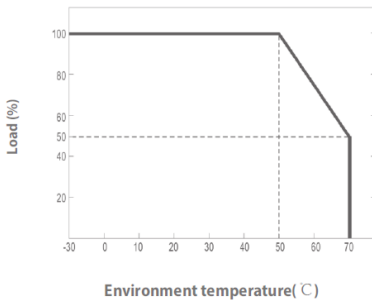
Model	LPS-1-040-24DC	LPS-1-060-12DC	LPS-1-060-24DC	LPS-1-090-12DC
Input Voltage	85-264VAC / 120-370VDC			
Output Wattage	40W	60W	60W	90W
Output Voltage	24VDC	12VDC	24VDC	12VDC
Output Current	1.7A	5A	2.5A	7.5A
Efficiency	88%	86%	88%	83%
<b>General Specification</b>				
Approval	cURus - Class 2			
Isolation Voltage	3000VAC/4242VDC			
Isolation Resistance	100MΩ @ 500VDC			
Ambient Temperature	-30 to +70°C (refer to derating curve)			
Derating	(50 to 70°C) 2.5%/°C			
Storage Temperature	-40 to +85°C			
Relative Humidity	20 to 95% RH			
Cooling	Free air convection			
Dimensions	92 x 41 x 100mm			92 x 55 x 100mm
Weight	280g			400g
Case Material	Plastic			
<b>Input Specifications</b>				
Rated Input Voltage	85-264VAC / 120-370VDC			
Line Frequency	50/60Hz			
Inrush Current (115 / 230VAC)	30 / 60A			
<b>Output Specifications</b>				
Output Voltage Accuracy	+1%			
Minimum Load	0%			
Line Regulation	±1%		±2%	±1%
Load Regulation		±5%		±1%
Turn On Time	500ms			
Voltage Fall Time	150ms			
Voltage Rise Time	30ms			
Hold Up Time (115 / 230VAC)	30 / 30ms			
Ripple & Noise	150mVp-p	120mVp-p	150mVp-p	120mVp-p
Voltage Trim Range	21.6-28.8VDC	10.8-13.8VDC	21.6-28.8VDC	10.8-13.8VDC
DC ON & LOW Indicator (Green & Red LED)	18-21.6VDC	9-10.8VDC	18-21.6VDC	9-10.8VDC
<b>Control &amp; Protection</b>				
Rated Overload Protection	> 105%-150%			
Over Voltage Protection	31.2-36VDC	15.6-18V	31.2-36VDC	15.6-18V
Output Short Circuit	Hiccup Mode			

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## Dimensions (mm)

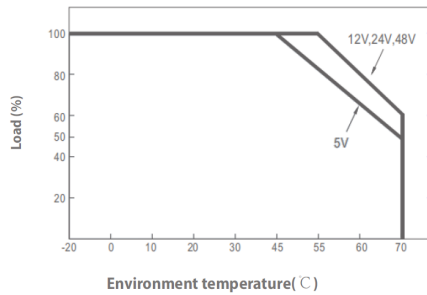


## Derating Curves



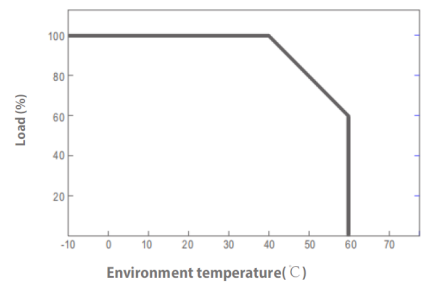
Environment temperature(°C)

LPS-1-010-24DC  
LPS-1-024-24DC  
LPS-1-030-5DC  
LPS-1-040-12DC  
LPS-1-040-24DC



Environment temperature(°C)

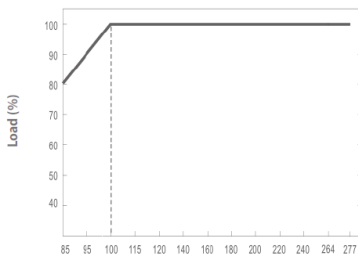
LPS-1-060-12DC  
LPS-1-060-24DC



Environment temperature(°C)

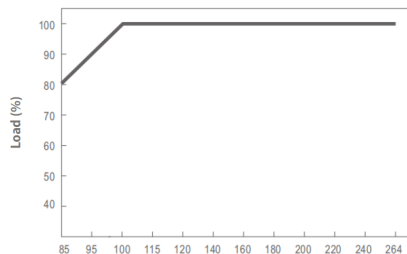
LPS-1-090-12DC

## Minus Output & Input Curves



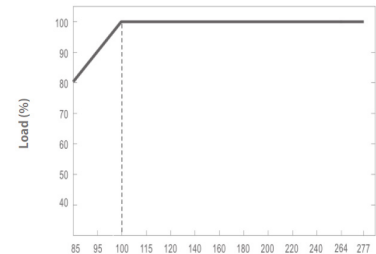
Input voltage(VAC)

LPS-1-010-24DC  
LPS-1-024-24DC  
LPS-1-030-5DC  
LPS-1-040-12DC  
LPS-1-040-24DC



Input voltage(VAC)

LPS-1-060-12DC  
LPS-1-060-24DC



Input voltage(VAC)

LPS-1-090-12DC