- Class 2
- UL, cUL, UR, cUR, CE
- Universal input 90~264VAC
- High efficiency
- Short circuit protection
- Internal input filter
- 3 Year warranty
- Modular design
- IP20













Specification - 5VDC (7.5W - 60W)

Model	MPS-1-007-5DC	MPS-1-015-5DC	MPS-1-022-5DC	MPS-1-035-5DC*	MPS-1-060-5DC*			
Frame Size	1	2	3	4	5			
Input Voltage			90 ~ 264VAC					
Output Wattage	7.5W	15W	22W	35W	60W			
Output Voltage		n	5VDC					
Output Current	1.5A	3A	4.5A	7A	12A			
Efficiency (min/typ)	73/75%	80/82%	72/75%	78/80%	78/80%			
General Specification								
Approval		cURus -	Class 2		cURus			
Isolation Voltage	3000VAC / 4242VDC							
Isolation Resistance	100MΩ @ 500VDC							
Ambient Temperature			-40 to +71°C					
Derating	(61 to 71°C) 2.5%/°C (56 to 71°C) 2.5%/°C							
Storage Temperature		-40 to +85°C						
Relative Humidity	20 to 95% RH							
Cooling	Free air convection							
Dimensions	91 x 18 x 56.5mm	91 x 35 x 56.5mm	91 x 53 x 56.5mm	91 x 71 x 56.5mm	91 x 90 x 57mm			
Weight	65g	130g	190g	250g	380g			
Case Material			Plastic					
Input Specifications								
Rated Input Voltage			100 to 240VAC					
Input Voltage Range	90 to 264VAC, 120 to 375VDC							
Line Frequency	47 to 63Hz							
Inrush Current (115/230VAC)	16/32A	20/40A	25/50A	30/60A	30/60A			
Output Specifications								
Output Voltage Accuracy	±1%							
Minimum Load	0%							
Line Regulation	±1%							
Load Regulation	±1%							
Turn On Time	1000ms after AC applied to input at full resistive load							
Voltage Fall Time	150ms							
Voltage Rise Time	150ms							
Hold Up Time (115/230VAC)	10/30ms	20/80ms	20/100ms	16/60ms	16/60ms			
Temperature Coefficient	±0.03%/°C							
Ripple & Noise	50mV							
Voltage Trim Range	N/A 5 to 5.5VDC							
DC ON Indicator (Green LED)	3.5-4.5VDC							
` '			3.3-4.3700		3.5-4.5VDC			
DC LOW Indicator (Red LED)								
Control & Protection								
,								
Control & Protection			3.5-4.5VDC					

- Class 2
- UL, cUL, UR, cUR, CE
- Universal input 90~264VAC
- High efficiency
- Short circuit protection
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- 3 Year warranty
- Modular design
- IP20













Specification - 12VDC (10W - 72W)

Model	MPS-1-010-12DC	MPS-1-024-12DC	MPS-1-033-12DC	MPS-1-054-12DC	MPS-1-072-12DC*	
Frame Size	1	2	3	4	5	
Input Voltage		90 ~ 264VAC				
Output Wattage	10W	24W	33W	54W	72W	
Output Voltage		•	12VDC			
Output Current	0.83A	2A	2.75A	4.5A	6A	
Efficiency (min/typ)	77/79%	82/84%	80/83%	82/84%	83/86%	
General Specification			,		•	
Approval		cURus -	- Class 2		cURus	
solation Voltage		3000VAC / 4242VDC				
solation Resistance		100MΩ @ 500VDC				
Ambient Temperature		'	-40 to +71°C		'	
Derating	(61 to 71°	(61 to 71°C) 2.5%/°C (56 to 71°C) 2.5%/°C				
Storage Temperature		-40 to +85°C				
Relative Humidity		20 to 95% RH				
Cooling		Free air convection				
Dimensions	91 x 18 x 56.5mm	91 x 35 x 56.5mm	91 x 53 x 56.5mm	91 x 71 x 56.5mm	91 x 90 x 57mm	
Veight	65g	130g	190g	250g	380g	
Case Material		Plastic				
nput Specifications	_					
Rated Input Voltage			100 to 240VAC			
nput Voltage Range		90 to 264VAC, 120 to 375VDC				
ine Frequency		47 to 63Hz				
nrush Current (115/230VAC)	16/32A	20/40A	25/50A	30/60A	30/60A	
Output Specifications					•	
Output Voltage Accuracy		1	±1%		'	
Minimum Load		0%				
ine Regulation		±1%				
oad Regulation		±1%				
urn On Time	1000ms after AC applied to input at full resistive load					
/oltage Fall Time		150ms				
/oltage Rise Time	150ms					
Hold Up Time (115/230VAC)	10/30ms	20/80ms	20/100ms	16/60ms	16/60ms	
emperature Coefficient		±0.03%/°C				
Ripple & Noise		1	50mV			
oltage Trim Range	N/A 12 to 14VDC					
OC ON Indicator (Green LED)		9-10.8VDC				
OC LOW Indicator (Red LED)		9-10.8VDC				
Control & Protection						
Rated Overload Protection			125 to 185%			
Over Voltage Protection		15-16.5VDC				
Output Short Circuit	Hiccu	p Mode		Fold Forward		

- Class 2
- UL, cUL, UR, cUR, CE
- Universal input 90~264VAC
- High efficiency
- Short circuit protection
- Internal input filter
- 3 Year warranty
- Modular design
- IP20











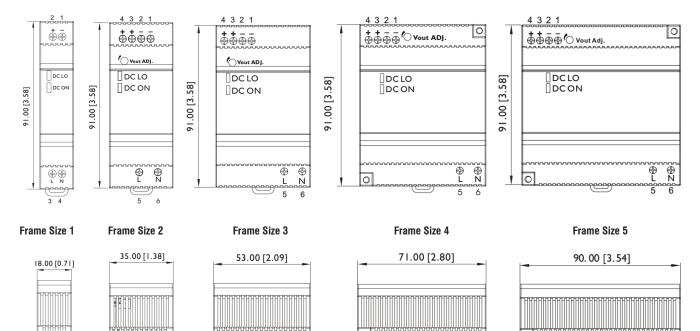


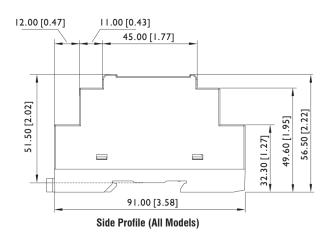
Specification - 24VDC (10W - 100W)

Injust Voltage 10W	Model	MPS-1-010-24DC	MPS-1-024-24DC	MPS-1-036-24DC	MPS-1-060-24DC	MPS-1-100-24DC*	
Output Wattage 10W 24W 36W 60W 100W Output Output Current 0.42A 1A 1.5A 2.5A 4.2A Efficiency (min'typ) 78.80% 83.85% 81/84% 84.86% 86.69% General Specification Approval CURUS - Class 2 CURUS - CLASS 2 <td rowsp<="" td=""><td>Frame Size</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></td>	<td>Frame Size</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td>	Frame Size	1	2	3	4	5
Output Voltage 24VDC Output Current 0.42A 1A 1.5A 2.5A 4.2A Efficiency (min/by) 78,80% 83,95% 81/84% 84,86% 86,93% General Specification Approval CURus Soldation Voltage CURus Soldation Resistance CURus Soldation Resistance CURus Soldation Resistance CURus Soldation Resistance CURUS SOLDATION COLSPANCE CURUS SOLDATION COLSPANCE Beating (61 to 71°C) 2.5%°C 40 to + 85°C CEA Beating (61 to 71°C) 2.5%°C 40 to + 85°C CEA Cooling Free air convection Dimensions 91 x 18 x 56.5mm 91 x 35 x 56.5mm 91 x 71 x 56.5mm 91 x 90 x 57mm Weight 65g 130g 190g 250g 380g Case Material 100 to 2400vAC 91 x 90 x 57mm 91 x 90 x 57mm Injust Specifications 100 to 2400vAC 91 x 90 x	Input Voltage		90 ~ 264VAC				
Output Current 0.42A 1A 1.5A 2.5A 4.2A Efficiency (min'typ) 78/80% 83/85% 81/84% 84/86% 86/89% General Specification Approval CURus - Class 2 CURus Stoation Voltage 3000VAC / 4242VDC Stoation Presistance 1000VAC / 4242VDC Ambient Temperature -40 to +8°C Ambient Temperature -40 to +8°C Beather Humidity -20 to 95% RH Cooling Free air convection Dimensions 91 x 18 x 65.5mm 91 x 35 x 56.5mm 91 x 71 x 56.5mm 91 x 90 x 57 mm Weight 65g 100 to 240VAC Imput Voltage 100 to 240VAC </td <td>Output Wattage</td> <td>10W</td> <td>24W</td> <td>36W</td> <td>60W</td> <td>100W</td>	Output Wattage	10W	24W	36W	60W	100W	
Efficiency (min/typ) 78,80% 83,85% 81/84% 84/86% 86/89%	Output Voltage		-	24VDC		•	
Approval CURus - Class 2	Output Current	0.42A	1A	1.5A	2.5A	4.2A	
Approval cURus - Class 2 cURus Solation Voltage Solation Voltage Solation Voltage Solation Voltage Solation Voltage Solation Voltage Solation Resistance Ambient Temperature General (61 to 71°C) 2.5%°C Strange Temperature General (61 to 71°C) 2.5%°C General (61 to 71°C) 2.5%°C Strange Temperature General (61 to 71°C) 2.5%°C General (61 to 71°C)	Efficiency (min/typ)	78/80%	83/85%	81/84%	84/86%	86/89%	
Solation Voltage 3000VAC / 4242VDC	General Specification		•				
Solution Resistance 100MΩ @ 500VDC	Approval		cURus	- Class 2		cURus	
Ambient Temperature	Isolation Voltage			3000VAC / 4242VDC		•	
Derailing (61 to 71°C) 2.5%,"C	Isolation Resistance			100MΩ @ 500VDC			
Storage Temperature	Ambient Temperature			-40 to +71°C			
Pelative Humidity	Derating	(61 to 71°)	(61 to 71°C) 2.5%/°C (56 to 71°C) 2.5%/°C				
Dimensions	Storage Temperature						
Dimensions 91 x 18 x 56.5mm 91 x 53 x 56.5mm 91 x 53 x 56.5mm 91 x 71 x 56.5mm 91 x 90 x 57mm	Relative Humidity		20 to 95% RH				
Meight	Cooling		Free air convection				
Plastic Input Specifications Input Specifications Input Voltage Input Voltage Input Voltage Input Voltage Input Voltage Range 90 to 264VAC, 120 to 375VDC Incept Frequency 47 to 63Hz Incush Current (115/230VAC) 16/32A 20/40A 25/50A 30/60A 30/60A 30/60A 30/60A Output Specifications Incush Current (115/230VAC) Incush Current (Incush Cu	Dimensions	91 x 18 x 56.5mm	91 x 35 x 56.5mm	91 x 53 x 56.5mm	91 x 71 x 56.5mm	91 x 90 x 57mm	
Section Sect	Weight	65g	130g	190g	250g	380g	
Rated Input Voltage Range	Case Material						
Input Voltage Range	Input Specifications						
Line Frequency 47 to 63Hz Inrush Current (115/230VAC) 16/32A 20/40A 25/50A 30/60A 30/60A Output Voltage Accuracy ±1% Minimum Load 0% ±1% Line Regulation ±1% ±1% Load Regulation ±1% ±1% Turn On Time 1000ms after AC applied to input at full resistive load Voltage Fall Time 150ms Voltage Rise Time 150ms Hold Up Time (115/230VAC) 10/30ms 20/80ms 20/100ms 16/60ms 16/60ms Temperature Coefficient ±0.03%/*C 16/60ms 16/60ms 16/60ms Temperature Coefficient ±0.03%/*C 10/30ms 20/80ms 16/60ms 16/60ms Temperature Coefficient ±0.03%/*C 10/30ms 16/60ms 16/60ms 16/60ms Temperature Coefficient ±0.03%/*C 10/30ms 16/60ms	Rated Input Voltage		100 to 240VAC				
Inrush Current (115/230VAC) 16/32A 20/40A 25/50A 30/60A	Input Voltage Range		90 to 264VAC, 120 to 375VDC				
Output Voltage Accuracy ± 1% Minimum Load 0% Line Regulation ± 1% Load Regulation ± 1% Turn On Time 1000ms after AC applied to input at full resistive load Voltage Fall Time 150ms Voltage Rise Time 150ms Hold Up Time (115/230VAC) 10/30ms 20/80ms 20/100ms 16/60ms 16/60ms Temperature Coefficient ± 0.03%°C 50mV Voltage Trim Range N/A 24 to 28VDC DC ON Indicator (Green LED) 19.2-21.6VDC DC LOW Indicator (Red LED) 19.2-21.6VDC Control & Protection 125 to 185% Over Voltage Protection 30-33VDC	Line Frequency			47 to 63Hz			
Output Voltage Accuracy ±1% Minimum Load 0% Line Regulation ±1% Load Regulation ±1% Turn On Time 1000ms after AC applied to input at full resistive load Voltage Fall Time 150ms Voltage Rise Time 150ms Hold Up Time (115/230VAC) 10/30ms 20/80ms 20/100ms 16/60ms 16/60ms Temperature Coefficient ±0.03%/°C 50mV 40.03%/°C 40.03%/°C <td>Inrush Current (115/230VAC)</td> <td>16/32A</td> <td>20/40A</td> <td>25/50A</td> <td>30/60A</td> <td>30/60A</td>	Inrush Current (115/230VAC)	16/32A	20/40A	25/50A	30/60A	30/60A	
Minimum Load 0% Line Regulation ±1% Load Regulation ±1% Turn On Time 1000ms after AC applied to input at full resistive load Voltage Fall Time 150ms Voltage Rise Time 150ms Hold Up Time (115/230VAC) 10/30ms 20/80ms 20/100ms 16/60ms 16/60ms Temperature Coefficient ±0.03%/°C Ripple & Noise 50mV Voltage Trim Range N/A 24 to 28VDC DC ON Indicator (Green LED) 19.2-21.6VDC Dc LOW Indicator (Red LED) 19.2-21.6VDC Control & Protection 125 to 185% Over Voltage Protection 30-33VDC	Output Specifications						
Line Regulation ±1% Load Regulation ±1% Turn On Time 1000ms after AC applied to input at full resistive load Voltage Fall Time 150ms Voltage Rise Time 150ms Hold Up Time (115/230VAC) 10/30ms 20/80ms 20/100ms 16/60ms 16/60ms Temperature Coefficient ±0.03%/°C 50mV 4 24 to 28VDC Voltage Trim Range N/A 24 to 28VDC 24 to 28VDC DC ON Indicator (Green LED) 19.2-21.6VDC 19.2-21.6VDC Control & Protection 125 to 185% Over Voltage Protection 30-33VDC	Output Voltage Accuracy			±1%			
Load Regulation ±1% Turn On Time 1000ms after AC applied to input at full resistive load Voltage Fall Time 150ms Voltage Rise Time 150ms Hold Up Time (115/230VAC) 10/30ms 20/80ms 20/100ms 16/60ms 16/60ms Temperature Coefficient ± 0.03%/°C 50mV Voltage Trim Range N/A 24 to 28VDC DC ON Indicator (Green LED) 19.2-21.6VDC DC LOW Indicator (Red LED) 19.2-21.6VDC Control & Protection 125 to 185% Over Voltage Protection 30-33VDC	Minimum Load						
Turn On Time 1000ms after AC applied to input at full resistive load Voltage Fall Time 150ms Voltage Rise Time 150ms Hold Up Time (115/230VAC) 10/30ms 20/80ms 20/100ms 16/60ms 16/60ms Temperature Coefficient ±0.03%/°C Ripple & Noise 50mV Voltage Trim Range N/A 24 to 28VDC DC ON Indicator (Green LED) 19.2-21.6VDC Control & Protection Rated Overload Protection 125 to 185% Over Voltage Protection 30-33VDC	Line Regulation		±1%				
Voltage Fall Time 150ms Voltage Rise Time 150ms Hold Up Time (115/230VAC) 10/30ms 20/80ms 20/100ms 16/60ms 16/60ms Temperature Coefficient ± 0.03%/°C 8 Ripple & Noise 50mV Voltage Trim Range N/A 24 to 28VDC DC ON Indicator (Green LED) 19.2-21.6VDC DC LOW Indicator (Red LED) 19.2-21.6VDC Control & Protection 125 to 185% Over Voltage Protection 30-33VDC	Load Regulation		±1%				
Voltage Rise Time 150ms Hold Up Time (115/230VAC) 10/30ms 20/80ms 20/100ms 16/60ms 16/60ms Temperature Coefficient ± 0.03%/°C 8 Ripple & Noise 50mV Voltage Trim Range N/A 24 to 28VDC DC ON Indicator (Green LED) 19.2-21.6VDC DC LOW Indicator (Red LED) 19.2-21.6VDC Control & Protection 125 to 185% Over Voltage Protection 30-33VDC	Turn On Time	1000ms after AC applied to input at full resistive load					
Hold Up Time (115/230VAC) 10/30ms 20/80ms 20/100ms 16/60ms 16/60ms Temperature Coefficient ±0.03%/°C Ripple & Noise 50mV Voltage Trim Range N/A 24 to 28VDC DC ON Indicator (Green LED) 19.2-21.6VDC DC LOW Indicator (Red LED) 19.2-21.6VDC Control & Protection Rated Overload Protection 125 to 185% Over Voltage Protection 30-33VDC	Voltage Fall Time		150ms				
Temperature Coefficient ±0.03%/°C Ripple & Noise 50mV Voltage Trim Range N/A 24 to 28VDC DC ON Indicator (Green LED) 19.2-21.6VDC DC LOW Indicator (Red LED) 19.2-21.6VDC Control & Protection 125 to 185% Over Voltage Protection 30-33VDC	Voltage Rise Time			150ms			
Ripple & Noise 50mV Voltage Trim Range N/A 24 to 28VDC DC ON Indicator (Green LED) 19.2-21.6VDC DC LOW Indicator (Red LED) 19.2-21.6VDC Control & Protection 125 to 185% Over Voltage Protection 30-33VDC	Hold Up Time (115/230VAC)	10/30ms	20/80ms	20/100ms	16/60ms	16/60ms	
Voltage Trim Range N/A 24 to 28VDC DC ON Indicator (Green LED) 19.2-21.6VDC DC LOW Indicator (Red LED) 19.2-21.6VDC Control & Protection Rated Overload Protection 125 to 185% Over Voltage Protection 30-33VDC	Temperature Coefficient		±0.03%/°C				
DC ON Indicator (Green LED) 19.2-21.6VDC DC LOW Indicator (Red LED) 19.2-21.6VDC Control & Protection 125 to 185% Over Voltage Protection 30-33VDC	Ripple & Noise		50mV				
DC LOW Indicator (Red LED) 19.2-21.6VDC Control & Protection 125 to 185% Over Voltage Protection 30-33VDC	Voltage Trim Range	N/A 24 to 28VDC					
DC LOW Indicator (Red LED) 19.2-21.6VDC Control & Protection 125 to 185% Over Voltage Protection 30-33VDC	DC ON Indicator (Green LED)		19.2-21.6VDC				
Rated Overload Protection 125 to 185% Over Voltage Protection 30-33VDC	DC LOW Indicator (Red LED)						
Over Voltage Protection 30-33VDC	Control & Protection						
	Rated Overload Protection			125 to 185%			
	Over Voltage Protection		1				
	<u> </u>	Hiccu					



Dimensions (mm)





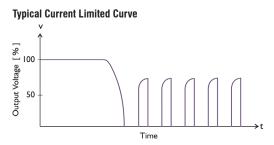
Terminal Assignment

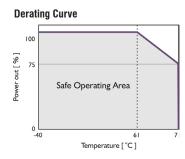
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	+	2	3, 4
Intput	L	3	5
	N	4	6

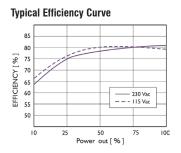
IMO

MPS Series 7.5W - 100W AC-DC DIN Rail Power Supplies

MPS-1-010-5DC, MPS-1-010-12DC & MPS-1-010-24DC

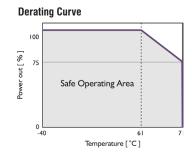


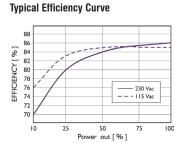




MPS-1-015-5DC, MPS-1-024-12DC & MPS-1-024-24DC

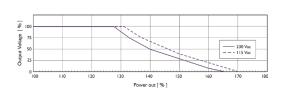
Typical Current Limited Curve



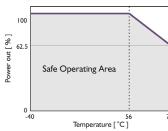


MPS-1-022-5DC, MPS-1-033-12DC & MPS-1-036-24DC

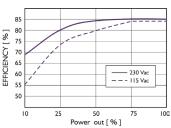
Typical Current Limited Curve





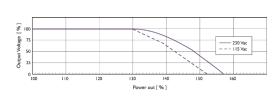


Typical Efficiency Curve

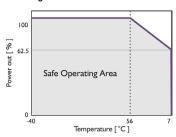


MPS-1-035-5DC, MPS-1-054-12DC & MPS-1-060-24DC

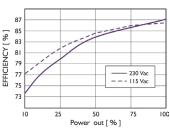
Typical Current Limited Curve



Derating Curve

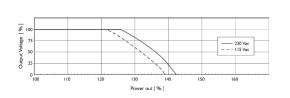


Typical Efficiency Curve

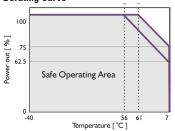


MPS-1-060-5DC, MPS-1-072-12DC & MPS-1-100-24DC

Typical Current Limited Curve



Derating Curve



Typical Efficiency Curve

