

Features

- **Din Rail / Screw Mounting Dual Purpose**
- Convection cooled
- Wide input range
- 100% burn-in test
- MOSFET designed
- 1 year Warranty
- **Output modify range: 3 V~200VDC**



DIMENSIONS : 104(H) x 35(D) x 45(W)mm

General specifications

INPUT

Input range	180~264VAC 200~380VDC
Input frequency	47~63Hz
Inrush current (25°C)	40A/220VAC

OUTPUT

Hold-up time	13mS
Short protection	Autorecovery

Detail specifications

50 Watts

MODEL	O/P Volt Adj. ±%	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵
		Min.	Rated	Max.				
MSE5024D	V1: +24V ± 10%	0A	2.1A	2.1A	240mVp-p	±1%	±1%	83% Min.

Environments

Operating Temperature	-15 ~ 50°C, Ambient
Operating Humidity	5 ~ 95% RH, No Condensing
Storage Temperature	-20 ~ 85°C, Ambient
Vibration	2G, 10~500Hz, 3 axes

- NOTE:
1. Each output can provide up to maximum load, but total load can not exceed rated output power.
 2. Line regulation is measured from low line to high line at rated load.
 3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
 4. Ripple & Noise is measured by using a 0.1uF/630V metalized capacitor & a 47uF electrolytic capacitor parallel on the test point, at rated load and 220VAC input.
 5. Efficiency is measured at rated load and 220VAC input.
 6. Hold-up time is measured at rated load and 220VAC input.

Features

- Din Rail/ Screw Mounting Dual Purpose
- No-load Consumption is lower than 0.3W
- Comply with high Efficiency Power 80Plus Criterion
- Comply with 2010 Energy Conservation Power ErP Regulation
- Output Voltage Monitor Display
- Convection cooled
- Wide input range
- 100% burn-in test
- 1 year Warranty
- Output modify range: 3V~200VDC



DIMENSIONS : 102(H) x 75.5(D) x 45(W)mm
WEIGHTS: 181g

General specifications

INPUT

Input range	90~264VAC 127~380VDC
Input frequency	47~63Hz
Inrush current (25 C)°	20A/110VAC 40A/220VAC

OUTPUT

Hold-up time	13mS
Short protection	Autorecovery
Overload protection	Automatic Power Limited

Detail specifications

50 Watts

MODEL	O/P Volt Adj. ± %	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵	O.V.P
		Min.	Rated	Max.					
MSPS05024D-LED	V1: +24V ±10%	0A	2.1A	2.1A	240mVp-p	±1%	±1%	86% Ref.	31.4 ~ 34.7V

EMC Standards

EN 55022 CLASS A
EN 61000-3-3,
EN 55024 (IEC 61000-4-2, IEC 61000-4-3,
IEC 61000-4-4, IEC61000-4-5, IEC 61000-4-6,
IEC 61000-4-8 IEC 61000-4-11)

Environments

Operating Temperature	-15 ~ 50°C, Ambient
Operating Humidity	5 ~ 95% RH, No Condensing
Storage Temperature	-20 ~ 85°C Ambient
Vibration	2G, 10~500Hz, 3 axes

Safety Standards



U L 508 Certificate



C E Marking

- NOTE:
1. Each output can provide up to maximum load, but total load can not exceed rated output power
 2. Line regulation is measured from low line to high line at rated load.
 3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
 4. Ripple & Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 5. Efficiency is measured at rated load and 220VAC input.
 6. Hold-up time is measured at rated load and 220VAC input.

The factory retained the right to modify all specifications without notice

Features

- **Din Rail / Screw Mounting Dual Purpose**
- Convection cooled
- Wide input range
- 100% burn-in test
- MOSFET designed
- 1 year Warranty



DIMENSIONS : 104(H) x 76(D) x 45(W)mm

General specifications

INPUT

Input range	180~264VAC 200~380VDC
Input frequency	47~63Hz
Inrush current (25°C)	40A/220VAC

OUTPUT

Hold-up time	13mS
Short protection	Autorecovery

Detail specifications

Rated 70~100 Watts, Peak 100 Watts

MODEL	O/P Volt Adj. ± %	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵
		Min.	Rated	Max.				
MSE10024D	V1: +24V ± 10%	0A	3A (72W)	4.1A	350mVp-p	±1%	±1%	80% Min.

Environments

Operating Temperature	-15 ~ 50°C, Ambient
Operating Humidity	5 ~ 95% RH, No Condensing
Storage Temperature	-20 ~ 85°C, Ambient
Vibration	2G, 10~500Hz, 3 axes

- NOTE:
1. Each output can provide up to maximum load, but total load can not exceed rated output power.
 2. Line regulation is measured from low line to high line at rated load.
 3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
 4. Ripple & Noise is measured by using a 0.1uF/630V metalized capacitor & a 47uF electrolytic capacitor parallel on the test point, at rated load and 220VAC input.
 5. Efficiency is measured at rated load and 220VAC input.
 6. Hold-up time is measured at rated load and 220VAC input.

Features

- Standard/Din Rail Mounting Dual Purpose
- No-load Consumption is lower than 0.3W
- Comply with High Efficiency Power 80Plus Criterion
- Comply with 2010 Energy Conservation Power Erp Regulation
- "Output Voltage Monitor" Display
- Convection cooled
- Wide input range
- 100% burn-in test
- 1 years warranty
- Output modify range: 3V~200VDC



DIMENSIONS: 100(H)*83(D)*49(W)mm
WEIGHTS: 365g

General specifications

INPUT

Input range 90~132/180~264VAC(Selectable)
220~380VDC
Input frequency 47~63Hz
Inrush current (25°C) 20A/110VAC
40A/220VAC

OUTPUT

Hold-up time 13ms
Short protection Autorecovery
Over load protection Automatic power limited

Detail specifications

100 Watts

MODEL	O/P Volt Adj. ± %	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵	O.V.P
		Min.	Rated	Max.					
MSPS10024D-LED	V1: +24V ±10%	0A	4.2A	4.2A	240mVp-p	±1%	±1%	86% Ref.	31.4 ~ 34.7V

EMC Standards

EN 55022 CLASS A
EN 61000-3-3,
EN 55024 (IEC 61000-4-2,
IEC 61000-4-3, IEC 61000-4-4,
IEC 61000-4-5 IEC 61000-4-6,
IEC 61000-4-8 IEC 61000-4-11)

Safety Standards

UL 508 Certificate
 CE Marking

Environments

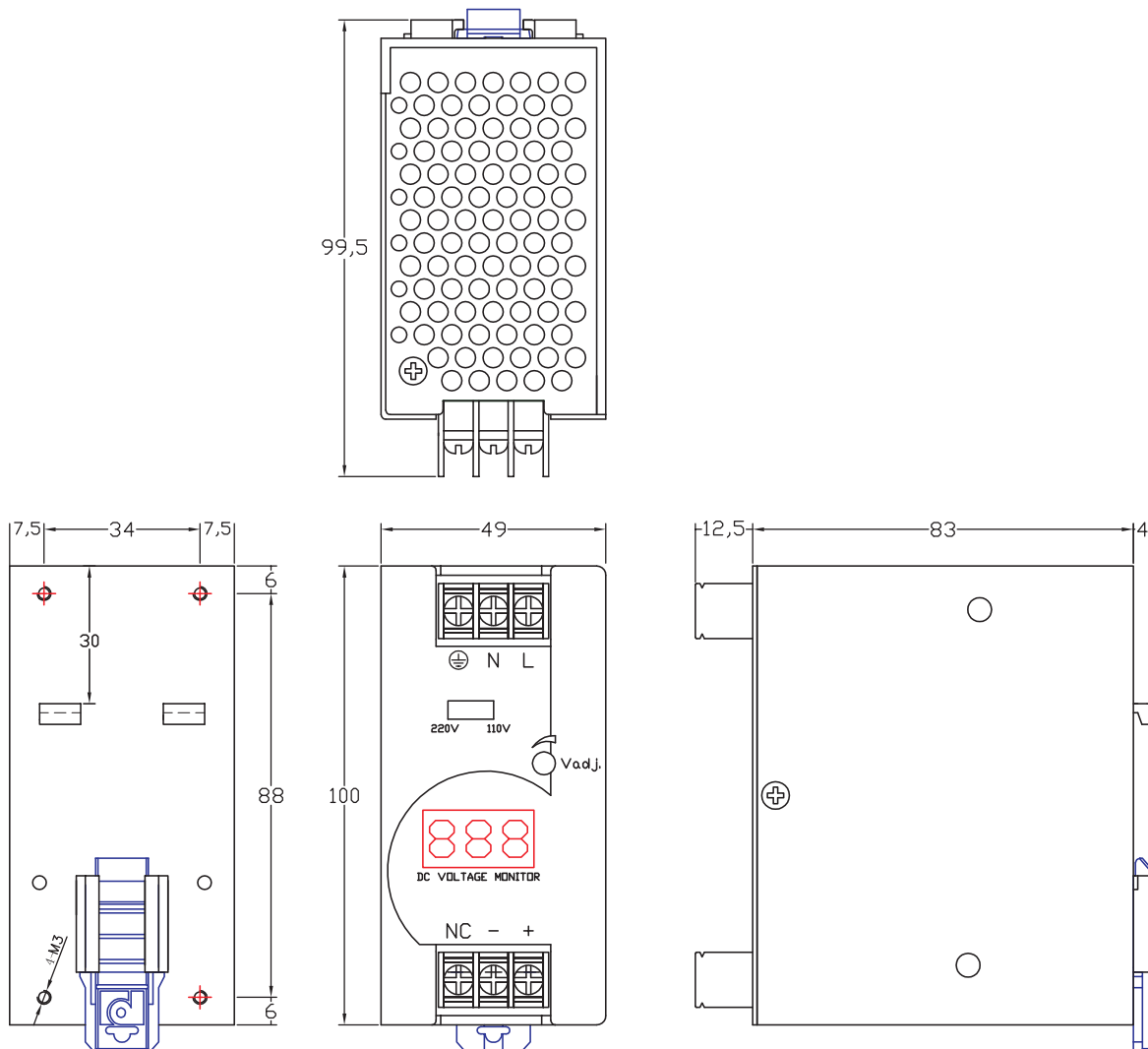
Operating Temperature -15 ~ 50°C, Ambient
Operating Humidity 5 ~ 95% RH, No Condensing
Storage Temperature -20 ~ 85°C, Ambient
Vibration 2G, 10~500Hz, 3 axes

NOTE

1. Each output can provide up to maximum load, but total load can not exceed rated output power.
2. Line regulation is measured from low line to high line at rated load.
3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
4. Ripple & Noise is measured at 20MHz bandwidth by using a 12" twisted pair wire terminated with a 0.1uF & 47uF parallel capacitor
5. Efficiency is measured at rated load and 220VAC input.
6. Hold-up time is measured at rated load and 220VAC input.

The factory retained the right to modify all specifications without notice

Mechanical Details



Panel Designation

CASE NO. : CS035DR
 UNIT : mm
 DIMENSION : 100(H)*83(D)*49(W)
 MATERIAL : ALUMINUM
 COLOR : ORIGINAL ALUMINUM

Single	Description
L	Line Terminal Of AC Input (No Polarity At DC Input)
N	Neutral Terminal Of AC Input (No Polarity At DC Input)
⊕	Grounding (Earth)
+	DC Positive Output Terminal
-	DC Negative Output Terminal
NC	No Output Terminal
DC Voltage Monitor	Display Output Voltage
V adj.	Potentiometer For Output Voltage

Green Power

All the patents are held accountable counterfeiting.

Features

- Standard/Din Rail Mounting Dual Purpose
- Comply with High Efficiency Power 80Plus Criterion
- "Output Voltage Monitor" Display
- Convection cooled
- Wide input range
- 100% burn-in test
- 1 years warranty
- Output modify range: 3V~200VDC



WEIGHTS: 740 g
DIMENSIONS: 100(H) * 110(D) * 60(W) mm



General specifications

INPUT

Input range 90~132/180~264VAC(Selectable)
220~380VDC
Input frequency 47~63Hz
Inrush current (25°C) 20A/110VAC
40A/220VAC

OUTPUT

Hold-up time 13ms
Short protection Autorecovery
Over load protection Automatic power limited

Detail specifications

300 Watts

MODEL	O/P Volt Adj. ± %	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵	O.V .P
		Min.	Rated	Max.					
MSPS30024D-LED	V1: +24V ±10%	0A	12.5A	12.5A	240mVp-p	±1%	±1%	90% Ref.	31.4 ~ 34.7V

EMC Standards

EN55022 CLASS A
EN61000-3-3
EN55024(IEC61000-4-2,
IEC61000-4-3, IEC61000-4-4
IEC61000-4-5, IEC61000-4-6
IEC61000-4-8, IEC61000-4-11)

Safety Standards

UL 508 Certificate
 CE Marking

Environments

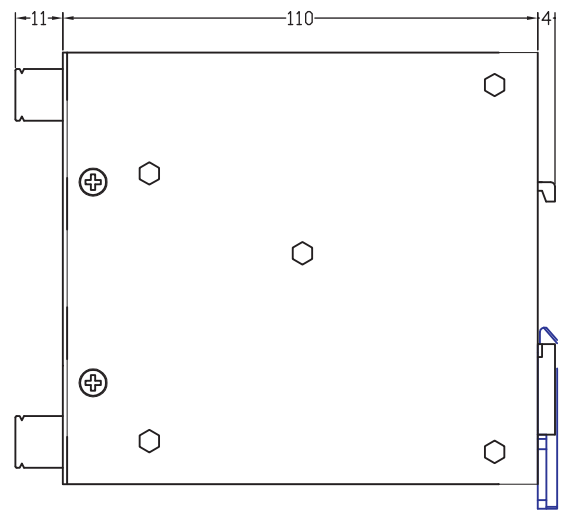
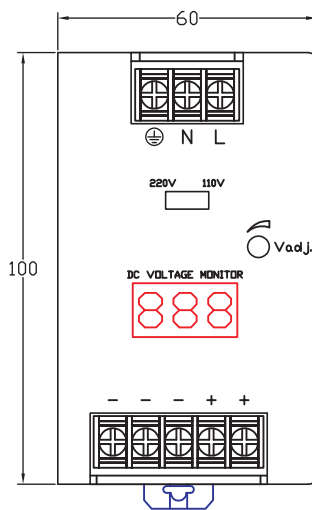
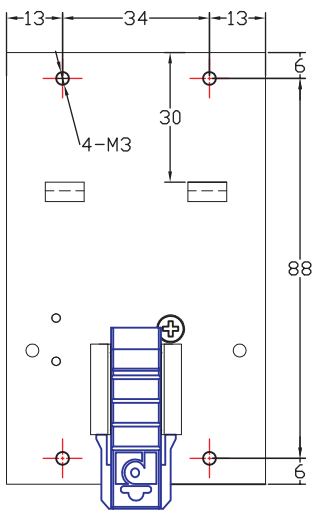
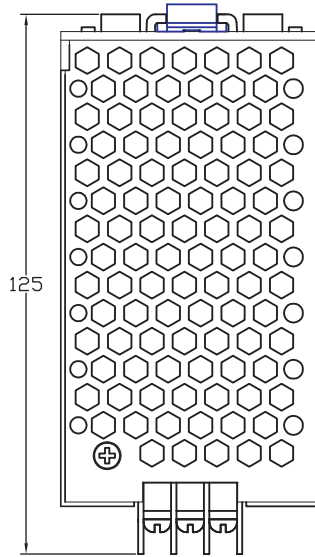
Operating Temperature -15 ~ 50°C, Ambient
Operating Humidity 5 ~ 95%RH, No Condensing
Storage Temperature -20 ~ 85°C, Ambient
Vibration 2G, 10~500Hz, 3 axes

NOTE

1. Each output can provide up to maximum load, but total load can not exceed rated output power.
2. Line regulation is measured from low line to high line at rated load.
3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
4. Ripple & Noise is measured at 20MHz bandwidth by using a 12" twisted pair wire terminated with a 0.1uF & 47uF parallel capacitor.
5. Efficiency is measured at rated load and 220VAC input.
6. Hold-up time is measured at rated load and 220VAC input.

The factory retained the right to modify all specifications without notice

Mechanical Details



Connection Terminal

Unit : mm
 Dimension : 100(H)*110(D)*60(W)
 Material : Aluminum
 Color : Original Aluminum

Signal	Description
L	AC Live Input
N	AC Neutral Input
⊕	Grounding (Earth)
+	DC Positive Output Terminal
-	DC Negative Output Terminal
DC Voltage Monitor	Display Output Voltage
V adj.	Potentiometer For Output Voltage

Features

- Din Rail/ Screw Mounting Dual Purpose
- Fan Speed Control (PCB DampProof)
- Comply with High Efficiency Power 80Plus Criterion
- Wide Input Range
- Output Voltage Monitoring Display
- 100% burn-in test
- Convection cooled
- 200,000 Hrs MTBF
- 1 year Warranty
- Output modify range: 3V~200VDC



DIMENSIONS : 100(H) x 110(D) x 90(W)mm
WEIGHTS: 820g

General specifications

INPUT

Input range 90~132/180~264VAC (Selectable)
220~380VDC
Input frequency 47~63Hz
Inrush current (25 °C) 20A/ 110VAC
40A/ 220VAC

OUTPUT

Hold-up time 13mS
Short protection Autorecovery

Detail specifications

500 Watts

MODEL	O/P Volt Adj. ± %	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵	O.V.P
		Min.	Rated	Max.					
MSPS50024D-LED	V1: +24V ±10%	0A	20.8A	20.8A	100mVp-p	±0.4%	±0.8%	85% Ref.	28 ~ 34V

EMC Standards

EN55022 CLASS A
EN61000-3-3
EN55024(IEC61000-4-2,
IEC61000-4-3, IEC61000-4-4
IEC61000-4-5, IEC61000-4-6
IEC61000-4-8, IEC61000-4-11)

Safety Standards

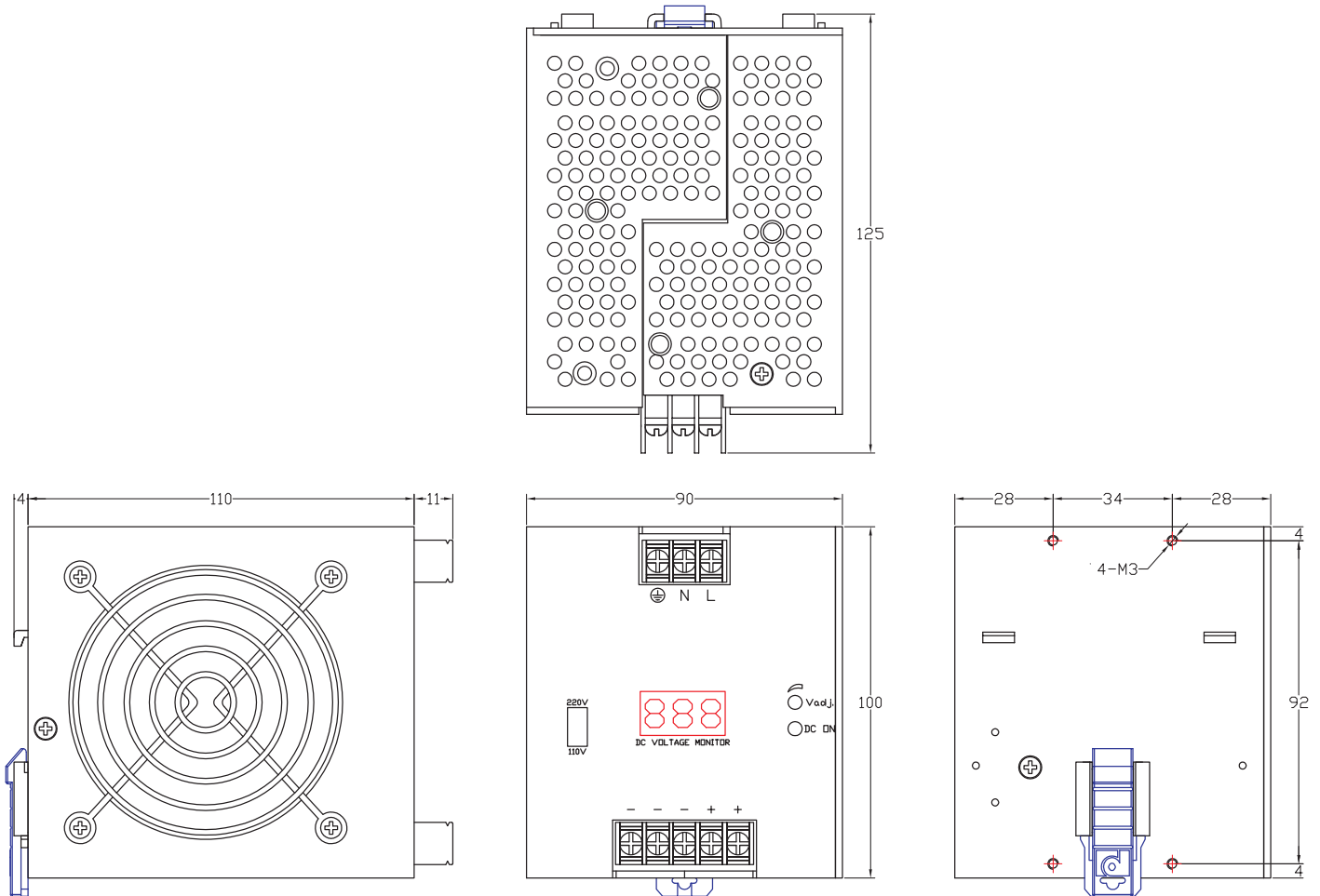
UL/CSA 60950 Meet
CE Marking

Environments

Operating Temperature -15 ~ 50°C, Ambient
Operating Humidity 5 ~ 95% RH, No Condensing
Storage Temperature -20 ~ 85°C, Ambient
Vibration 2G, 10~500Hz, 3 axes

- NOTE:
1. Each output can provide up to maximum load, but total load can not exceed rated output power.
 2. Line regulation is measured from low line to high line at rated load.
 3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
 4. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 5. Efficiency is measured at rated load and 220VAC input.
 6. Hold-up time is measured at rated load and 220VAC input.

Mechanical Details



CASE NO. : CS500DR
 UNIT : mm
 DIMENSION : 100(H)*110(D)*90(W)
 MATERIAL : ALUMINUM
 COLOR : ORIGINAL ALUMINUM

Panel Designation

Single	Description
L	Line Terminal Of AC Input (No Polarity At DC Input)
N	Neutral Terminal Of AC Input (No Polarity At DC Input)
⊕	Grounding (Earth)
+	DC Positive Output Terminal
-	DC Negative Output Terminal
DC Voltage Monitor	Display Output Voltage
V adj.	Potentiometer For Output Voltage
DC ON	Blue LED Indicator

Features

- Din Rail/ Screw Mounting Dual Purpose
- No-load Consumption is lower than 0.3W
- Comply with high Efficiency Power 80Plus Criterion
- Comply with 2010 Energy Conservation Power ErP Regulation
- Output Voltage Monitor Display
- Convection cooled
- Wide input range
- 100% burn-in test
- 1 year Warranty
- Output modify range: 3V~200VDC

 DIMENSIONS : 102(H) x 75.5(D) x 45(W)mm
 WEIGHTS: 181g


General specifications

INPUT

Input range	90~264VAC 127~380VDC
Input frequency	47~63Hz
Inrush current (25 C)°	20A/110VAC 40A/220VAC

OUTPUT

Hold-up time	13mS
Short protection	Autorecovery
Overload protection	Automatic Power Limited

Detail specifications

50 Watts

MODEL	O/P Volt Adj. ± %	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵	O.V.P
		Min.	Rated	Max.					
MSPS05012D-LED	V1: +12V ± 10%	0A	4.2A	4.2A	120mVp-p	±1%	±1%	85% Ref.	17.1 ~ 18.9V

EMC Standards

EN 55022 CLASS A
 EN 61000-3-3,
 EN 55024 (IEC 61000-4-2, IEC 61000-4-3,
 IEC 61000-4-4, IEC61000-4-5, IEC 61000-4-6,
 IEC 61000-4-8 IEC 61000-4-11)

Environments

Operating Temperature	-15 ~ 50°C, Ambient
Operating Humidity	5 ~ 95% RH, No Condensing
Storage Temperature	-20 ~ 85°C Ambient
Vibration	2G, 10~500Hz, 3 axes

Safety Standards



U L 508 Certificate

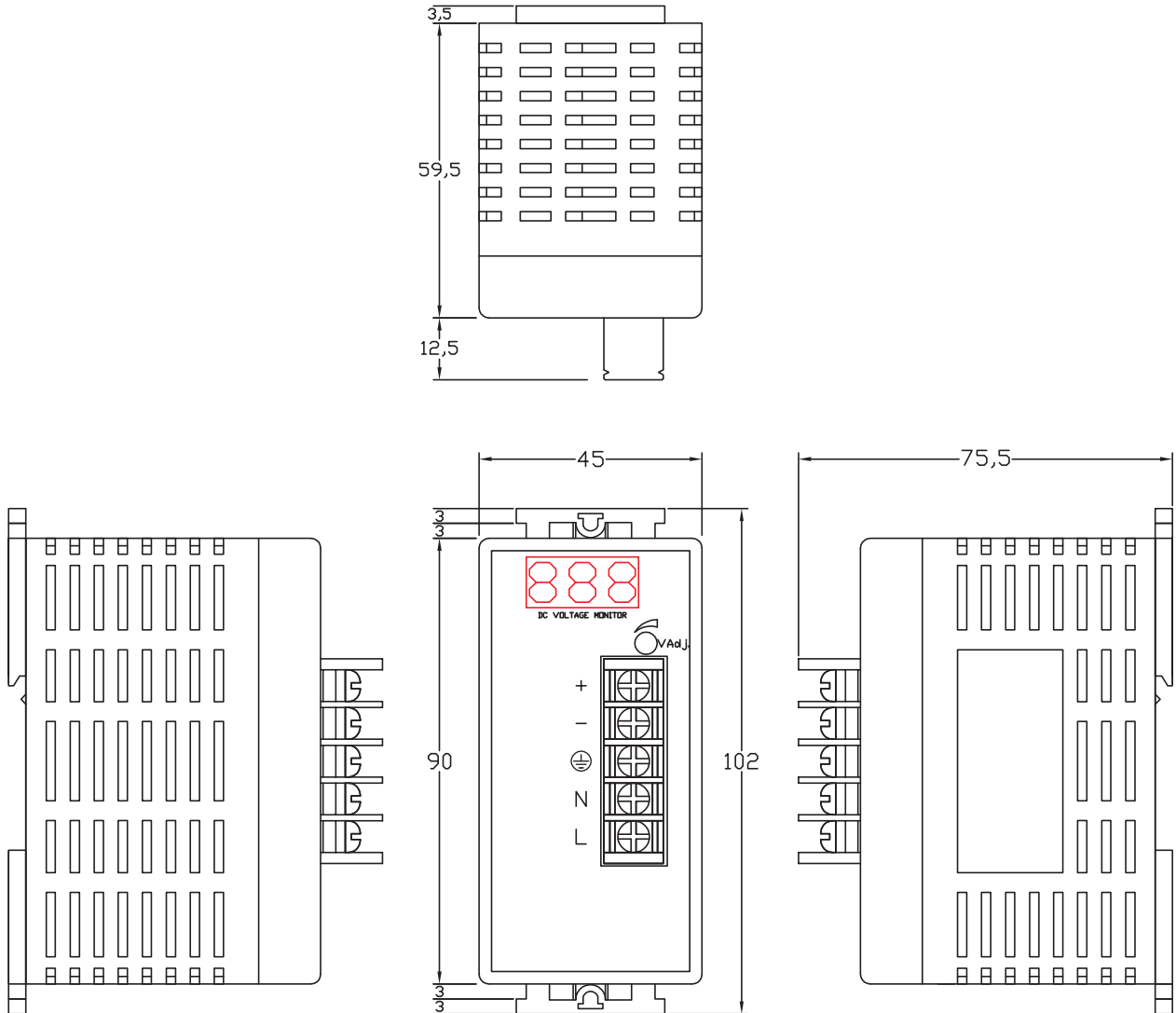


C E Marking

- NOTE:
1. Each output can provide up to maximum load, but total load can not exceed rated output power
 2. Line regulation is measured from low line to high line at rated load.
 3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
 4. Ripple & Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 5. Efficiency is measured at rated load and 220VAC input.
 6. Hold-up time is measured at rated load and 220VAC input.

The factory retained the right to modify all specifications without notice

Mechanical Details



Panel Designation

CASE NO. : CS024DR
 UNIT : mm
 DIMENSION : 102(H)*75.5(D)*45(W)
 MATERIAL : PLASTIC
 COLOR : GRAY

Single	Description
N	Neutral Terminal Of AC Input (No Polarity At DC Input)
L	Line Terminal Of AC Input (No Polarity At DC Input)
⊕	Grounding (Earth)
-	DC Negative Output Terminal
+	DC Positive Output Terminal
DC Voltage Monitor	Display Output Voltage
V adj.	Potentiometer For Output Voltage

Features

- Standard/Din Rail Mounting Dual Purpose
- No-load Consumption is lower than 0.3W
- Comply with High Efficiency Power 80Plus Criterion
- Comply with 2010 Energy Conservation Power Erp Regulation
- "Output Voltage Monitor" Display
- Convection cooled
- Wide input range
- 100% burn-in test
- 1 years warranty
- Output modify range: 3V~200VDC



DIMENSIONS: 100(H)*83(D)*49(W)mm
WEIGHTS: 365g

General specifications

INPUT

Input range	90~132/180~264VAC(Selectable) 220~380VDC
Input frequency	47~63Hz
Inrush current (25°C)	20A/110VAC 40A/220VAC

OUTPUT

Hold-up time	13ms
Short protection	Autorecovery
Over load protection	Automatic power limited

Detail specifications

100 Watts

MODEL	O/P Volt Adj. ± %	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵	O.V .P
		Min.	Rated	Max.					
MSPS10012D-LED	V1: +12V ±10%	0A	8.3A	8.3A	120mVp-p	±1%	±1%	85% Ref.	17.1 ~ 18.9V

EMC Standards

EN 55022 CLASS A
EN 61000-3-3,
EN 55024 (IEC 61000-4-2,
IEC 61000-4-3, IEC 61000-4-4,
IEC 61000-4-5 IEC 61000-4-6,
IEC 61000-4-8 IEC 61000-4-11)

Safety Standards

UL 508 Certificate
 CE Marking

Environments

Operating Temperature -15 ~ 50°C, Ambient
Operating Humidity 5 ~ 95% RH, No Condensing
Storage Temperature -20 ~ 85°C, Ambient
Vibration 2G, 10~500Hz, 3 axes

NOTE

1. Each output can provide up to maximum load, but total load can not exceed rated output power.
2. Line regulation is measured from low line to high line at rated load.
3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
4. Ripple & Noise is measured at 20MHz bandwidth by using a 12" twisted pair wire terminated with a 0.1uF & 47uF parallel capacitor
5. Efficiency is measured at rated load and 220VAC input.
6. Hold-up time is measured at rated load and 220VAC input.

The factory retained the right to modify all specifications without notice

All the patents are held accountable counterfeiting.

Features



Green Power

DIMENSIONS: 210(L)*110(W)*109.5(H)mm
WEIGHTS: 1790g

- Comply with High Efficiency Power80Plus Criterion
- Din Rail/Screw Mounting Dual Purpose
- Fan speed control (PCB damp proof process)
- Protection with constant current
- Output Voltage Digital Display
- 100% full load burn-in test
- MOSFET designed
- 110,000Hrs MTBF per MIL-HDBK-217F
- 1-year warranty
- Output Range Customisation Ability: 3V ~ 200VDC
- Split Rail & Series connection possible

General specifications

INPUT

Input range	180~264VAC 220~380VDC
Input frequency	47~63Hz
Inrush current (25° C)	40A/220VAC

OUTPUT

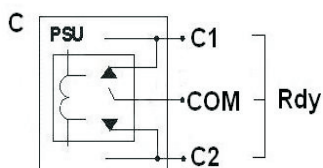
Hold-up time	10mS
Short protection	Autorecovery
Overload protection	Constant current protection
Over voltage protection	Autorecovery

Detail specifications

1000 Watts

MODEL	O/P Volt Adj. ± %	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵	O.V.P. Trip point
		Min.	Rated	Max.					
MSPS1K12D-LED	V1: +12V ±10%	0A	83.3A	83.3A	150mVp-p	±1%	±3%	82% Min.	14 ~ 17V
MSPS1K24D-LED	V1: +24V ±10%	0A	41.6A	41.6A	300mVp-p	±1%	±3%	83% Min.	27.6 ~ 31V
MSPS1K48D-LED	V1: +48V ±10%	0A	20.83A	20.83A	480mVp-p	±1%	±3%	83% Min.	55 ~ 67V

Rdy Connection



EMC Standards

EN55 022 CLAS S A, EN50 082-1
ENV5 0204, EN61 000-3-3
EN61 00-4-2, EN61 00-4-3,
EN61 000-4-4, EN61 000-4-5,
EN61 000-4-6, EN61 000-4-11

Safety Standards



CE Marking

Environments

Operating Temperature	-15 ~ 50°C, Ambient
Operating Humidity	5 ~ 95% RH, No Condensing
Storage Temperature	-20 ~ 85°C, Ambient
Vibration	2G, 10~500Hz, 3 axes

- NOTE: 1. Each output can provide up to maximum load, but total load can not exceed rated output power.
 2. Line regulation is measured from low line to high line at rated load.
 3. Load regulation is measured from 20% to 100% of rated load at 220VAC input. (Redundant function Sepc. 0.6V Add.)
 4. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 5. Efficiency is measured at rated load and 220VAC input.
 6. Hold-up time is measured at rated load and 220VAC input.

The factory retained the right to modify all specifications without notice

Green Power

Features

- Din Rail/ Screw Mounting Dual Purpose
- No-load Consumption is lower than 0.3W
- Comply with High Efficiency Power 80Plus Criterion
- Comply with 2010. Energy Conservation Power ErP Regulation
- Output Voltage Monitoring Display
- 100% burn-in test
- Convection cooled
- 200,000 Hrs MTBF
- 1 year Warranty
- Output modify range: 3V~200VDC


 DIMENSIONS : 100(H) x 83(D) x 49(W)mm
 WEIGHTS: 390g

General specifications

INPUT

Input range	90~132/180~264VAC (Selectable) 220~380VDC
Input frequency	47~63Hz
Inrush current (25 C)°	20A/ 110VAC 40A/ 220VAC

OUTPUT

Hold-up time	13mS
Short protection	Autorecovery
Overload protection	Automatic Power Limited

Detail specifications

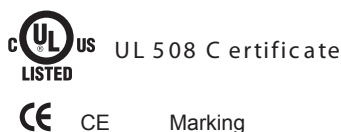
150 Watts

MODEL	O/P Volt Adj. ± %	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵	O.V.P
		Min.	Rated	Max.					
MSPS15012D-LED	V1: +12V ±10%	0A	12.5A	12.5A	120mVp-p	±1%	±1%	86% Ref.	17.1 ~ 18.9V

EMC Standards

EN55022 CLASS A
 EN61000-3-3
 EN55024(IEC61000-4-2,
 IEC61000-4-3, IEC61000-4-4
 IEC61000-4-5, IEC61000-4-6
 IEC61000-4-8, IEC61000-4-11)

Safety Standards



Environments

Operating Temperature	-15 ~ 50 °C, Ambient
Operating Humidity	5 ~ 95% RH, No Condensing
Storage Temperature	-20 ~ 85 °C, Ambient
Vibration	2G, 10~500Hz, 3 axes

- NOTE:
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 2. Line regulation is measured from low line to high line at rated load.
 3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
 4. Ripple & Noise is measured by using a 0.1uF/630V metalized capacitor & a 47uF electrolytic capacitor parallel on the test point, at rated load and 220VAC input.
 5. Efficiency is measured at rated load and 220VAC input.
 6. Hold-up time is measured at rated load and 220VAC input.

Green Power

All the patents are held accountable counterfeiting.

Green Power

Features

- Standard/Din Rail Mounting Dual Purpose
- Comply with High Efficiency Power 80Plus Criterion
- "Output Voltage Monitor" Display
- Convection cooled
- Wide input range
- 100% burn-in test
- 1 years warranty
- Output modify range: 3V~200VDC



WEIGHTS: 740 g

DIMENSIONS: 100(H) * 110(D) * 60(W) mm

General specifications

INPUT

Input range 90~132/180~264VAC(Selectable)
220~380VDC
Input frequency 47~63Hz
Inrush current (25°C) 20A/110VAC
40A/220VAC

OUTPUT

Hold-up time 13ms
Short protection Autorecovery
Over load protection Automatic power limited

Detail specifications

300 Watts

MODEL	O/P Volt Adj. ± %	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵	O.V .P
		Min.	Rated	Max.					
MSPS30036D-LED	V1: +24V ±10%	0A	8.3A	8.3A	360mVp-p	±1%	±1%	90% Ref.	47.8 ~ 53.2V

EMC Standards

EN55022 CLASS A
EN61000-3-3
EN55024(IEC61000-4-2,
IEC61000-4-3, IEC61000-4-4
IEC61000-4-5, IEC61000-4-6
IEC61000-4-8, IEC61000-4-11)

Safety Standards

UL 508 Certificate
 CE Marking

Environments

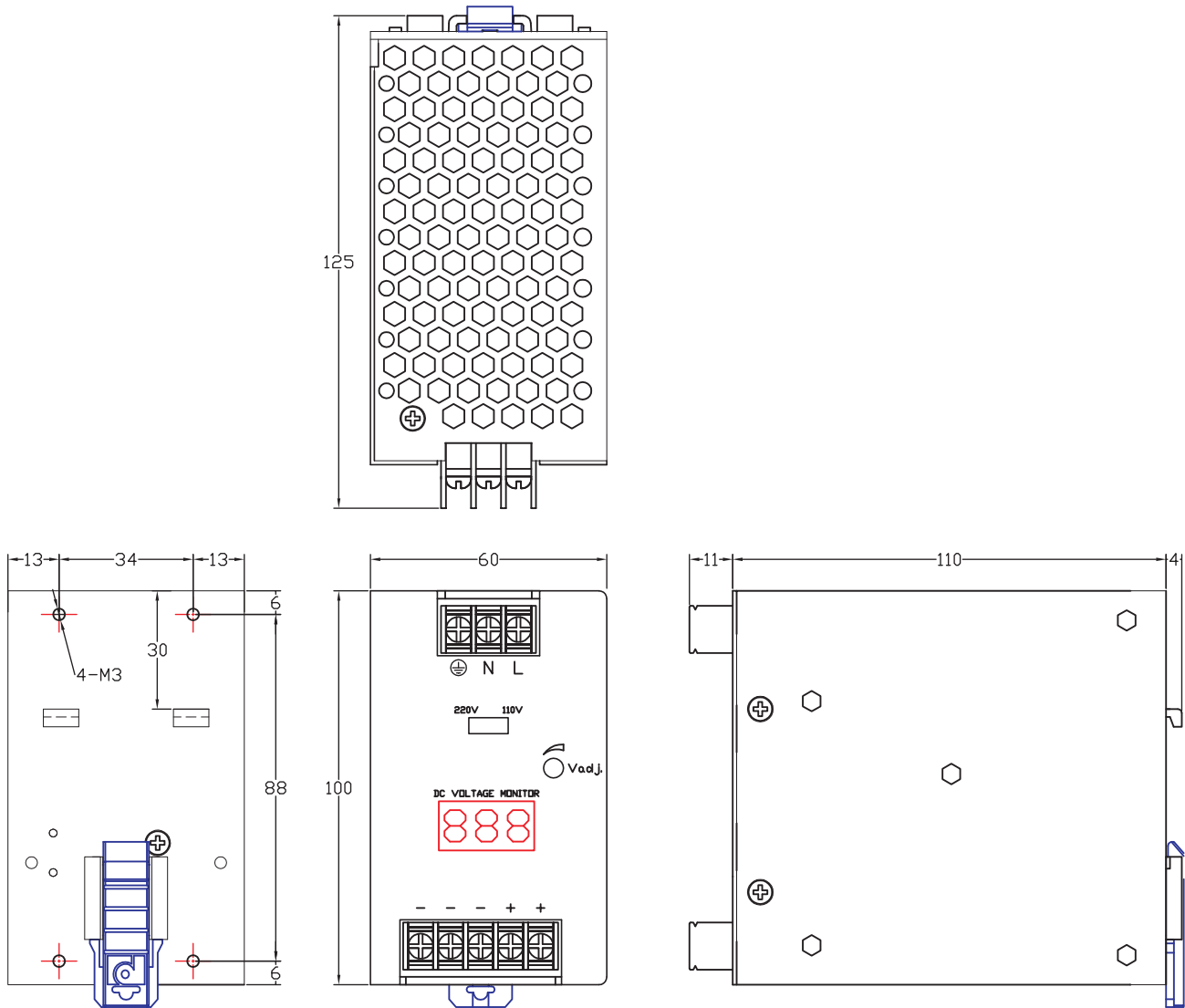
Operating Temperature -15 ~ 50°C, Ambient
Operating Humidity 5 ~ 95%RH, No Condensing
Storage Temperature -20 ~ 85°C, Ambient
Vibration 2G, 10~500Hz, 3 axes

NOTE

1. Each output can provide up to maximum load, but total load can not exceed rated output power.
2. Line regulation is measured from low line to high line at rated load.
3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
4. Ripple & Noise is measured at 20MHz bandwidth by using a 12" twisted pair wire terminated with a 0.1uF & 47uF parallel capacitor.
5. Efficiency is measured at rated load and 220VAC input.
6. Hold-up time is measured at rated load and 220VAC input.

The factory retained the right to modify all specifications without notice

Mechanical Details



Connection Terminal

Unit : mm
 Dimension : 100(H)*110(D)*60(W)
 Material : Aluminum
 Color : Original Aluminum

Signal	Description
L	AC Live Input
N	AC Neutral Input
⊕	Grounding (Earth)
+	DC Positive Output Terminal
-	DC Negative Output Terminal
DC Voltage Monitor	Display Output Voltage
V adj.	Potentiometer For Output Voltage

All the patents are held accountable counterfeiting.

Features

- Standard Din Rail Mounting Dual Purpose
- Comply with High Efficiency Power 80Plus Criterion
- Output Voltage Monitoring Display
- Compact Size
- Split Rail and Series connection possible
- Fan Speed Control (PCB damp proof process)
- Output modify range: 3V~200VDC



Dimensions: 90(W)*100(H)*110(D)mm Weights: 820g

General Specifications

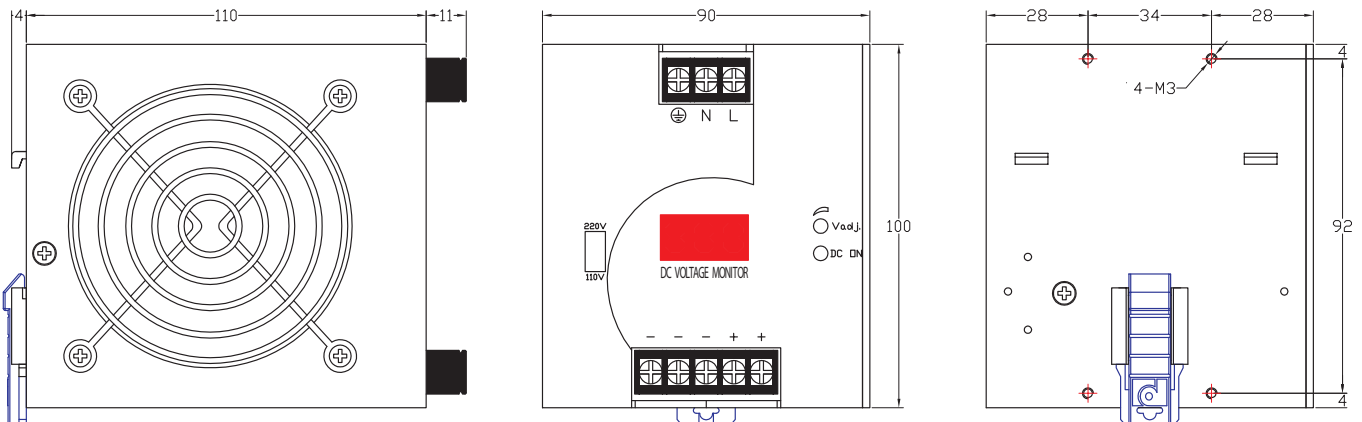
Input voltage range	90 ~ 132VAC / 180 ~ 264VAC (Selectable) , 200 ~ 380VDC
Input Frequency range	47 ~ 63Hz
AC inrush current	Cold start, 20A / 110VAC, 40A / 220VAC
Hold-up time	Rated load, 13ms / 220VAC
Short protection	Autorecovery
Overload protection	Automatic power limited
Operating Temperature	-15 ~ 50°C, Ambient

Detail Specifications

450 ~ 500W Single Output

MODEL	O/P Volt Adj. %	Lo ad(C urrent)			Ripple & Noise	Line REG.	Lo ad REG.	Efficiency	O.V.P
		Min.	Rated	Max.					
MSPS50048DF-LED	+48V ±10%	0A	10.4A	10.4A	480mV	±1%	±2%	85% Ref.	64.6 ~ 71.4V

Mechanical Details



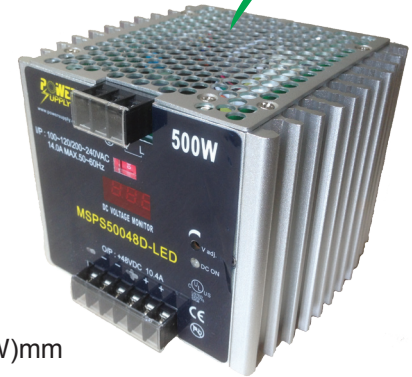
The factory retained the right to modify all specifications without notice

All the patents are held accountable counterfeiting.

Green Power

Features

- Standard Din Rail Mounting Dual Purpose
- Comply with High Efficiency Power 80Plus Criterion
- Output Voltage Monitoring Display
- Convection cooled high Reliability
- Wide Input Range
- 100% burn-in test
- Convection cooled
- 1 year Warranty
- Output modify range: 3V~200VDC



DIMENSIONS : 99(H) x 112(D) x 125(W)mm
WEIGHTS: 1380g

General specifications

INPUT

Input range	90~132/180~264VAC(Selectable) 220~380VDC
Input frequency	47~63Hz
Inrush current (25°C)	20A/110VAC 40A/220VAC

OUTPUT

Hold-up time	13ms
Short protection	Autorecovery
Over load protection	Automatic power limited

Detail specifications

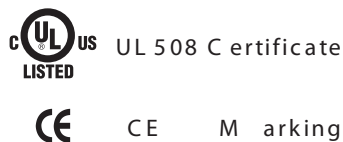
500 Watts

MODEL	O/P Volt Adj. %	Load (Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵	O.V.P
		Min.	Rated	Max.					
MSPS50048D-LED	V : +48V ±10%	0A	10.4A	10.4A	480mV	±1%	±1%	87% Ref.	64.6 ~ 71.4V

EMC Standards

EN 55022 CLASS A
EN 61000-3-3,
EN 55024 (IEC 61000-4-2,
IEC 61000-4-3, IEC 61000-4-4,
IEC 61000-4-5 IEC 61000-4-6,
IEC 61000-4-8 IEC 61000-4-11)

Safety Standards



Environments

Operating Temperature -15 ~ 50°C, Ambient
Operating Humidity 5 ~ 95% RH, No Condensing
Storage Temperature -20 ~ 85°C, Ambient
Vibration 2G, 10~500Hz, 3 axes

NOTE:

1. Each output can provide up to maximum load, but total load can not exceed rated output power.
2. Line regulation is measured from low line to high line at rated load.
3. Load regulation is measured from 20% to 100% of rated load at 220VAC input.
4. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
5. Efficiency is measured at rated load and 220VAC input.
6. Hold-up time is measured at rated load and 220VAC input.
7. Reign Power reserve the right to change specifications at any time without notice.

The factory retained the right to modify all specifications without notice

For Step and Servo Motor Application

Features

Designed to eliminate Back Electro-Motive Force (EMF) in Motor Application

During the braking process, back EMF generated by the Motor coil will trigger the self-protection function of the Switching Power Supply, shutting down the power and even damages the unit. In worst scenario, the customer product are also damaged.

The MS-BEMF7520D can quickly eliminate this back EMF voltage, stabilising the output voltage, resulting in a smoother Motion operation.



Detail specifications

DIMENSIONS : 104(H) x 35(D) x 45(W)mm

CE Marking

Model	Input Voltage	Output Voltage	Max Average Output Current	Max Peak Output Current
MS-BEMF7520D	20 ~ 75VDC	20 ~ 75VDC	10A	20A

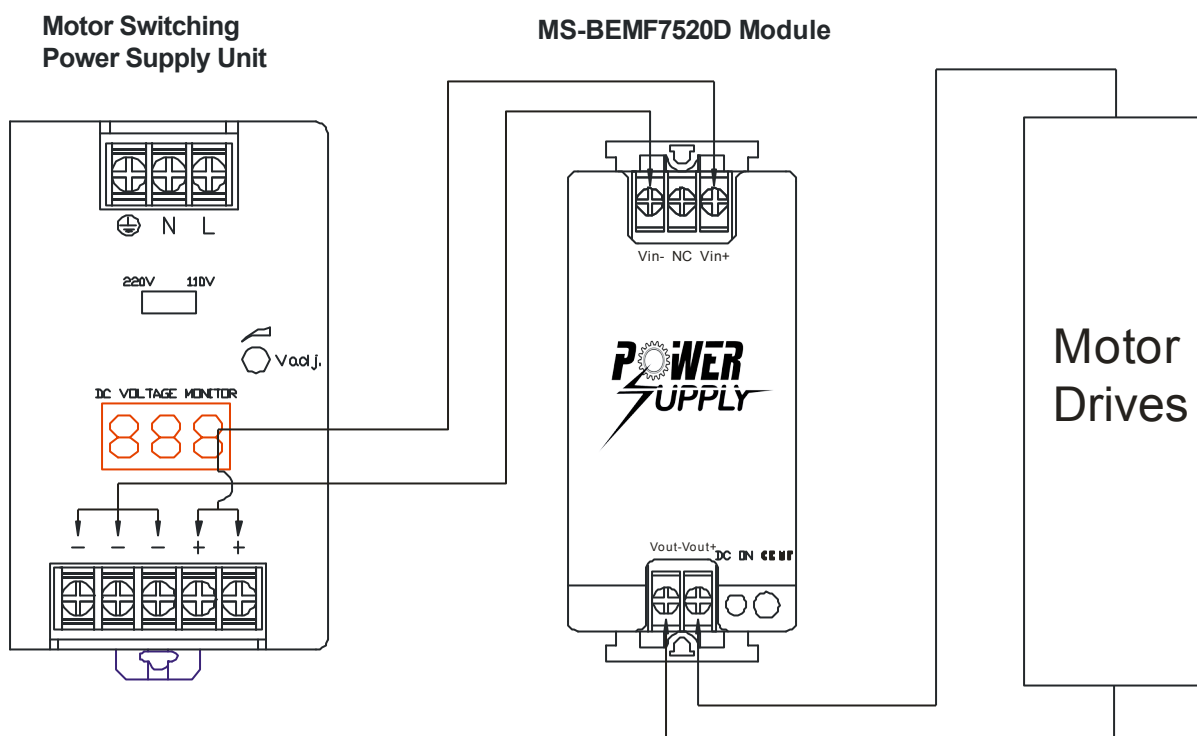
EMC Standards

EN 55022 CLASS B, EN 55024, EN 55032, EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11

Environments

Operating Temperature -15°C to +50°C, Ambient
 Operating Humidity 20 ~ 90% RH, No Condensing
 Storage Temperature -20°C to +85°C, Ambient
 Vibration 2G, 10~500Hz, 3 axes

Application Circuit



For Step and Servo Motor Application

Features

- Fan cooled (PCB Damp Proof Process)
- Isolated housing
- CEMF (Counter-ElectroMotive Force)
- Build-in Line Filter
- MOSFET designed
- 240,000 Hrs MTBF per MIL - HDBK - 217F
- 2 years Warranty
- Output range customisation ability: 3V ~200VDC
- Split rail & Series connection possible



DIMENSIONS: 173.5(L) x 127(W) x 52(H) mm
WEIGHTS: 1890g

General specifications

INPUT

Input range	90~132/180~264VAC (Selectable) 220~380VDC
Input frequency	47~63Hz
Inrush current (25°C)	25A/ 110VAC 50A/ 220VAC

OUTPUT

Hold-up Time	13mS
Short Protection	Autorecovery
Overload Protection	Automatic Power Limited
Over Voltage Protection	Autorecovery

Detail Specifications

200 Watts (300 Watts Peak)

MODEL	O/P Volt Adj. ±%	Load(Current) ¹			Ripple & Noise ⁴	Line REG. ²	Load REG. ³	Efficiency ⁵	O.V.P Trip Point
		Min.	Rated	Max.					
MSPS1200-24	V1: +24V ±10%	0A	8.3A	12.5A	150mVp-p	±1%	±5%	78% Min.	27.6 ~ 30V
MSPS1200-48	V1: +48V ±10%	0A	4.2A	6.25A	250mVp-p	±1%	±3%	80% Min.	54 ~ 60V
MSPS1200-75	V1: +75V ±10%	0A	2.6A	4A	300mVp-p	±1%	±2%	83% Min.	90 ~ 120V
MSPS1200-100	V1: +100V ±10%	0A	2A	3A	300mVp-p	±1%	±2%	84% Min.	130 ~ 155V

EMC Standards

EN55022 CLASS A
EN61000-3-3
EN55024(IEC61000-4-2,
IEC61000-4-3, IEC61000-4-4
IEC61000-4-5, IEC61000-4-6
IEC61000-4-8, IEC61000-4-11)

Safety Standards

UL/CSA 60950 Meet
 CE 60950 Marking

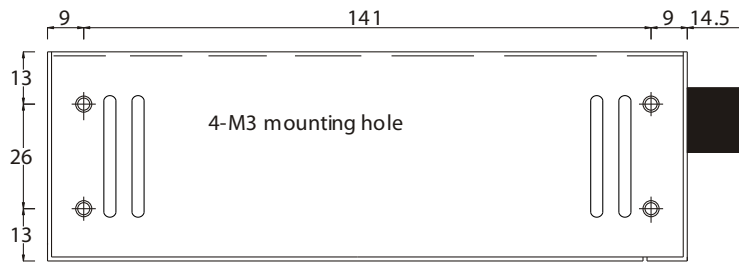
Environments

Operating Temperature -15 ~ 50°C, Ambient
Operating Humidity 5 ~ 95% RH, No Condensing
Storage Temperature -20 ~ 85°C, Ambient
Vibration 2G, 10~500Hz, 3 axes

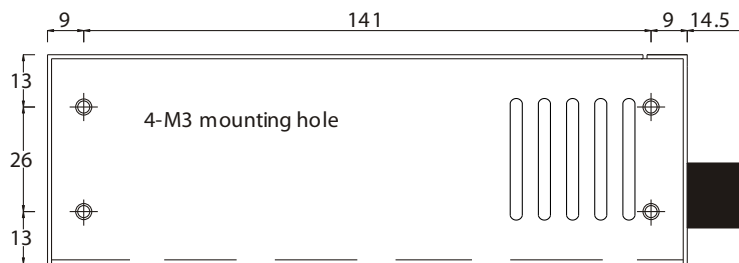
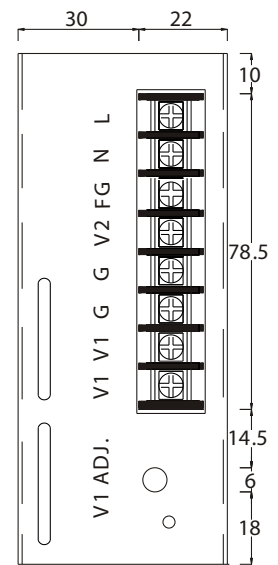
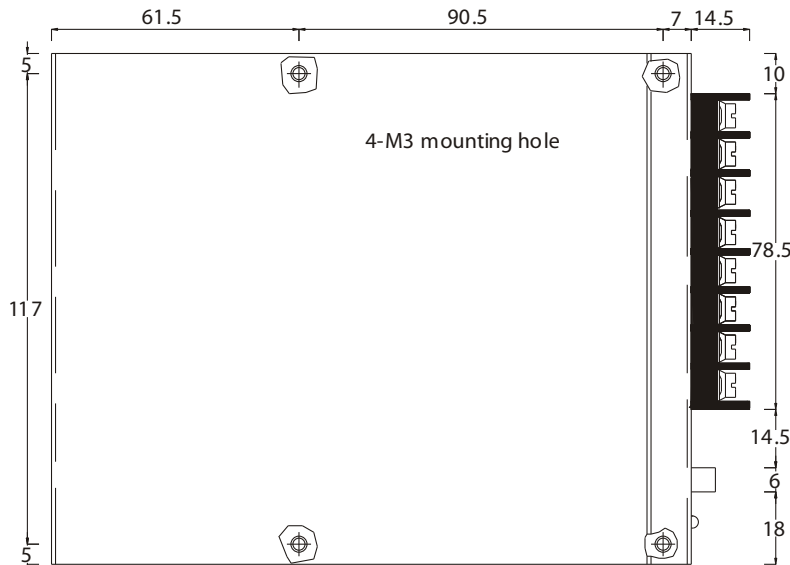
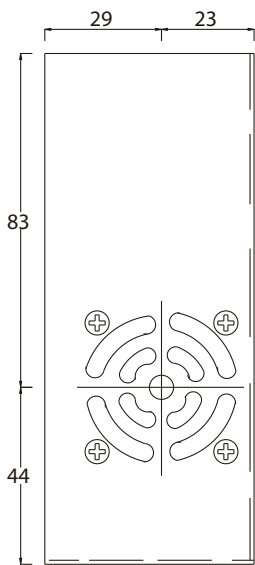
- NOTE:
1. Each output can provide up to maximum load, but total load can not exceed rated output power.
 2. Line regulation is measured from low line to high line at rated load.
 3. Load regulation is measured from 20% to 100% of rated load at 110VAC input.
 4. Ripple & Noise is measured by using a 0.1uF/630V metalized capacitor & a 47uF electrolytic capacitor parallel on the test point, at rated load and 110VAC input.
 5. Efficiency is measured at rated load and 110VAC input.
 6. Hold-up time is measured at rated load and 110VAC input.

The factory retained the right to modify all specifications without notice

Mechanical Details



Unit: mm
Material: Aluminium
Colour: Black



Overall Dimensions (mm): 173.5 (L) x 127 (W) x 52 (H)

Connection Terminal Descriptions

Terminal	Label	Descriptions
1	L	L: Line or Live Terminal of Input
2	N	N: Neutral Terminal of Input
3	FG	FG: Frame Ground or Earth Terminal Input
4	NC or V2	NC: No Connection
5,6	G	G: DC Output Ground, Zero or Negative (-) Terminal
7,8	V1	V1: DC Output Voltage or Positive (+) Terminal

Features

- Battery Reverse Connection Protection (Fuse)
- Low Battery Voltage Protection (Relay Open)
- AC Power Cut-off Signal
- Convection cooled
- Power OK: Signal output for easy control
- 100% burn-in test
- Build-in wave filter
- Small size
- MOSFET designed
- 350,000 Hrs MTBF per MIL-HDBK-217F
- 2 years Warranty
- Output voltage can be customised from 3V~200VDC
- Split rail and Series Connection possible



DIMENSIONS : 151(L) x 99(W) x 35(H)mm
WEIGHTS: 500g

General specifications

INPUT

Input range	90-264VAC 127~380VDC
Input frequency	47~63Hz
Inrush current (25°C)	20A/ 110VAC 40A/ 220VAC

OUTPUT

Hold-up Time	13mS
Short Protection	Autorecovery
Overload Protection	Automatic Power Limited

Detail specifications

60 Watts

MODEL	O/P Volt Adj. \pm %	Load(Current) ₁			Ripple & Noise ₄	Line REG. ₂	Load REG. ₃	Efficiency ₅	Function
		Min.	Rated	Max.					
MSPS20602CHTA	V1: +13.8V \pm 10% B+: +13.8V-----	0A 0A	4.2A 0.16A	4.2A -----	120mVp-p -----	\pm 1% -----	\pm 1% -----	72% Min.	Relay Contact
MSPS20602CHTB	V1: +13.8V \pm 10% B+: +13.8V-----	0A 0A	4.2A 0.16A	4.2A -----	120mVp-p -----	\pm 1% -----	\pm 1% -----	72% Min.	Voltage Output

Function Descriptions for Screw Terminal Number 8 and 9

Relay Contact: Will be SHORTED when AC Voltage is Supplied and OPEN when AC Voltage is removed

Voltage Output: Will have Voltage Signal appearing at Terminal Number 9 when AC Voltage is Supplied

NO Voltage Signal presence when AC Voltage is removed.

EMC Standards

EN55022 CLASS A
EN61000-3-3
EN55024(IEC61000-4-2,
IEC61000-4-3, IEC61000-4-4
IEC61000-4-5, IEC61000-4-6
IEC61000-4-8, IEC61000-4-11)

Safety Standards

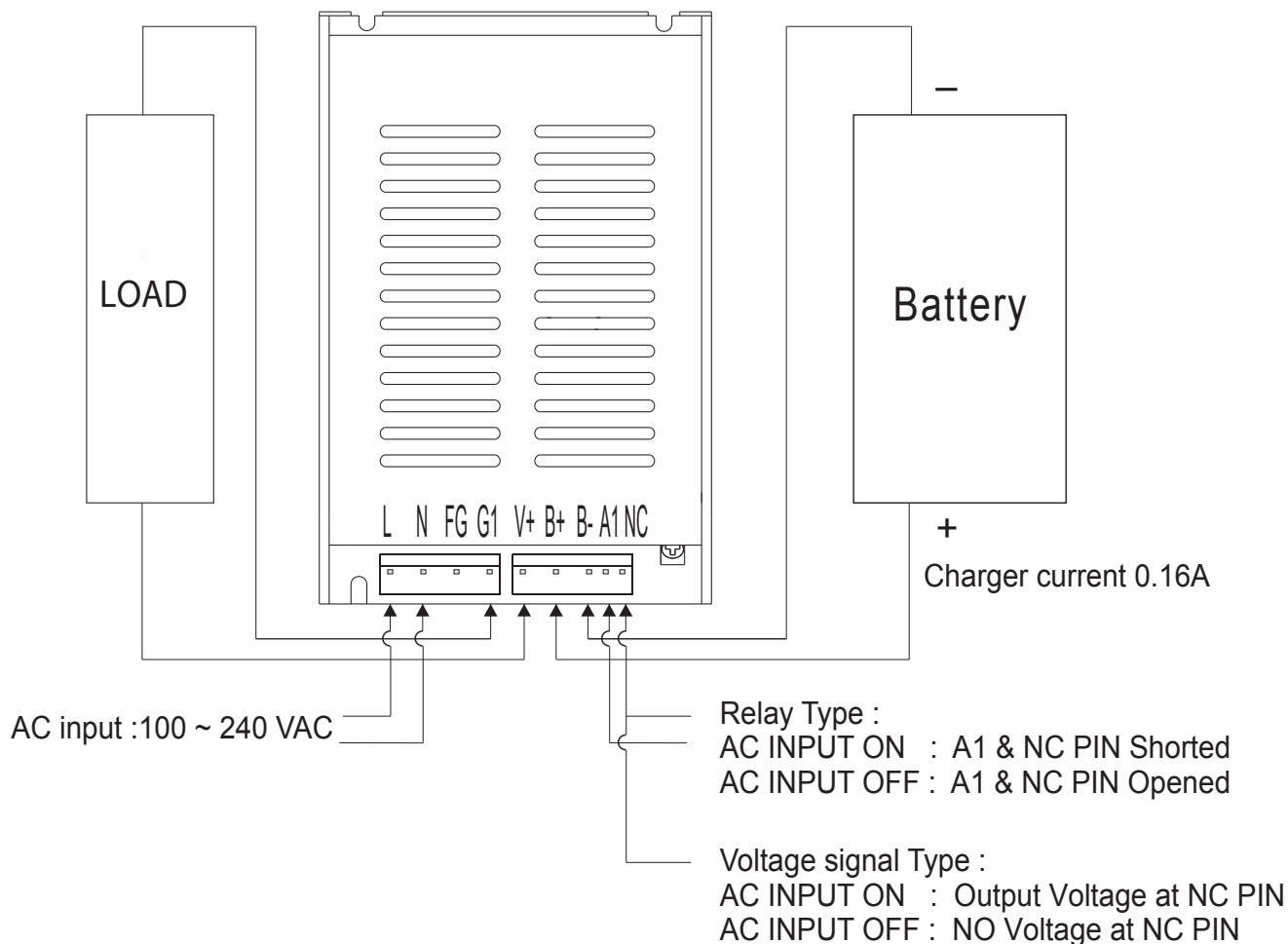
UL/CSA 60950 Meet
 CE Marking

Environments

Operating Temperature 5 ~ 95% RH, No Condensing
Operating Humidity -15~ 50°C, Ambient
Storage Temperature -20 ~ 85°C, Ambient
Vibration 2G, 10~500Hz, 3 axes

- NOTE :
1. Each output can provide up to maximum load, but total load can not exceed rated output power.
 2. Line regulation is measured from low line to high line at rated load.
 3. Load regulation is measured from 20% to 100% of rated load at 110VAC Input.
 4. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 5. Efficiency is measured at rated load and 110VAC Input.
 6. Hold-up time is measured at rated load and 110VAC Input.

The factory retained the right to modify all specifications without notice

Charging Connection
MSPS20602CHTX

Connection Terminal

Pin		Description			
1	L	Line Terminal of Input			
2	N	Neutral Terminal of Input			
3	FG	Groud(Earth)			
4	G1	DC Output Ground Terminal			
5	V+	DC Output Terminal			
6	B+	DC Output Battery + Terminal			
7	B-	DC Output Battery - Terminal			
Signal Pins	Voltage Signal Type (B)		Relay Type (A)		
	AC Input ON	AC Input OFF	AC Input ON	AC Input OFF	
8	A1	Not Used	Not Used	A1 and NC Pin Shorted	
9	NC	Output Voltage	NO Output		A1 and NC Pin Opened