DIN15W series

15W Din Rail Power Supply



■Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Isolation class II
- Can be installed on DIN Rail TS-35/7 or 15

LPS SELV

◎ELECTRICAL SPECIFICATION

MODEL	DIN15W12	DIN15W15	DIN15W24
OUTPUT			
Rated Voltage	12V	15V	24V
Rated Current	1.25A	1.0A	0.63A
Current Range	0 ÷ 1.25A	0 ÷ 1.0A	0 ÷ 0.63A
Rated Power	15W	15W	15W
No Output Voltage (max.)	12.6V	16V	25.2V
Voltage Adjustment Range [6]	10.5 – 13V	13 – 16V	21 – 27V
Line Reglation	± 1%		
Load Reglation	± 1%		
Voltage Tolerance [3]	± 5%		
Ripple & Noise (max.) [2]	240mV$_{P-P}$	300mV$_{P-P}$	300mV$_{P-P}$
Setup, Rise Time [4]	500ms, 250ms / 230VAC at full load		
Hold up Time (typ.)	20ms / 230VAC at full load		

INPUT						
Voltage Range	180 ÷ 264VAC					
Frequency Range	47 ÷ 63Hz					
Efficiency (typ.)	82%		83%		83%	
AC current (typ.)	0.35A / 230VAC					
Inrush current (max.)	22A / 230VAC; T_{WIDTH} (czas do półszczytu) = 250µs					
Max. No. Of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16
	22	35	22	35	45	72
No Load Power Consumption (max.)	< 0.5W					

PROTECTIONS

Over Current	Range: 120 ÷ 180%		
	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Over Voltage	15-24V	18-30V	30-48V
	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Over Temperature	Range: NTC detect		
	Type: shut down output voltage. Re-power on to recovery.		

WORKING ENVIRONMENT

Working Temperature	-20°C ÷ +50°C
Working Humidity	45 ÷ 85% RH non-condensing
Storage Temperature and Humidity	-30°C ÷ +70°C, 10 ÷ 95% RH non-condensing

SAFETY AND EMC REGULATIONS

Safety Standards	Compliance to EN62368-1
Withstand Voltage	IN/OUT: 3.75kVAC
EMC Emission	Compliance to EN55032
EMC Immunity	Compliance to EN55035
Harmonic Current	Compliance to EN 61000-3-3; EN 61000-3-2

OTHERS

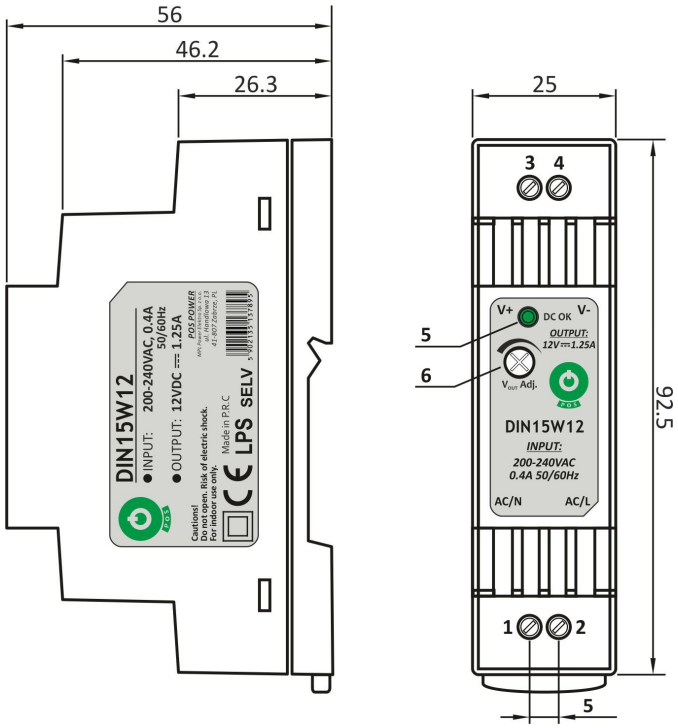
Dimensions	25 x 92.5 x 56mm (L x W x H)
Weight and Packing	0.1kg; 100pcs./box; weiht box and dimensions: 10kg; 33.3 x 23.3 x 33.5cm
EAN Code	5 902135 137895 / 5 902135 131220 / 5 902135 137918

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5.Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.
6. By built-in potentiometer.

⊙MECHANICAL SPECIFICATION

DIN15W series

15W Din Rail Power Supply



PIN ASSIGNMENT

No.	Assignment	No.	Assignment
1	Input: AC/N	3	Output: U_{OUT} +
2	Input: AC/L	4	Output: U_{OUT} -
		5	LED indication for power on
		6	U_{OUT} adjustment

MPL POWER ELEKTRO Sp. z o.o.
ul. Handlowa 13
41-807 Zabrze

DEKLARACJA ZGODNOŚCI UE

/EU DECLARATION OF CONFORMITY

Deklarujemy zgodność produktu: */For the following equipment:*

Oznaczenie: */Part No.:*	**DIN15WX (X = 5, 12, 15, 24, 36, 48)**
Numer partii: */Batch No.*	**GLP20xxxxxxxxxxxxx**
Opis: */Description.:*	**Zasilacz impulsowy** */Switching power supply*

z wymaganiami następujących przepisów oraz norm Unii Europejskiej: */is herewith confirmed to comply with the requirements set out in the Council Directive, the following standards were applied:*

Dyrektywy ROHS 2011/65/UE, 2015/863/UE, 2017/2102/UE
/ROHS Directives 2011/65/EU, 2015/863/EU, 2017/2102/EU

Dyrektywa LVD 2014/35/UE
/Low Voltage Directive 2014/35/EU

Zastosowana norma */Standard*	**Opis** */Description*
EN 62368-1:2020 + A11:2020	Urządzenia techniki fonicznej/wizyjnej, informatycznej i telekomunikacyjnej -- Część 1: Wymagania bezpieczeństwa */Audio/video, information and communication technology equipment. Safety requirements*

Dyrektywa EMC 2014/30/UE:
/Electromagnetic Compatibiity Directive 2014/30/EU

Zastosowana norma	**Opis**
EN 55032:2015 + A11:2020	Kompatybilność elektromagnetyczna urządzeń multimedialnych – Wymagania dotyczące emisji */Electromagnetic compatibility of multimedia equipment. Emission Requirements*
EN 55035:2017	Kompatybilność elektromagnetyczna urządzeń multimedialnych – Wymagania dotyczące odporności */Electromagnetic compatibility of multimedia equipment. Immunity requirements*
EN61000-3-2:2019	Kompatybilność elektromagnetyczna (EMC) -- Część 3-2: Poziomy dopuszczalne -- Poziomy dopuszczalne emisji harmonicznych prądu (fazowy prąd zasilający odbiornika ≤ 16 A) */Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*
EN61000-3-3:2013 + A1:2019	Kompatybilność elektromagnetyczna (EMC) -- Część 3-3: Poziomy dopuszczalne -- Ograniczanie zmian napięcia, wahań napięcia i migotania światła w publicznych sieciach zasilających niskiego napięcia, powodowanych przez odbiorniki o fazowym prądzie znamionowym < lub = 16 A przyłączone bezwarunkowo */Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <=16 A per phase and not subject to conditional connection*

Niniejsza deklaracja zgodności wydana zostaje na wyłączną odpowiedzialność producenta.
/This declaration of conformity is issued under the sole responsibility of the manufacturer.

Zabrze, 02.12.2020r.

MPL Power Elektro Sp z o.o.
ul. Handlowa 13, 41-807 Zabrze
NIP 6312457646, REGON 240105606

Pieczęć firmy */Company stamp*

KIEROWNIK
Działu Technicznego
Łukasz Jaromin

Podpis i pieczęć osoby */Person signature and stamp*

C E R T I F I C A T E

of Conformity
EC Council Directive (EU) 2014/30
Electromagnetic Compatibility

Registration No.: AE 50617971 0001

Report No.: CN23HEQP 001

Holder: MPL Power Elektro Sp. z o.o
ul. Handlowa 13 41-807
Zabrze,
Poland

Product: Power Supply
(DIN RAIL POWER SUPPLIES)

Type designation listed on the next page

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the License Holder`s disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive (EU) 2014/30. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

Certification Body

Gary Chen

Date: 2024-01-26

TÜV Rheinland LGA Products GmbH
TÜVRheinland
Zertifizierungsstelle

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CE **The CE marking may be used if all relevant and effective EC Directives/Regulations are complied with.** CE

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C E R T I F I C A T E

of Conformity
EC Council Directive (EU) 2014/30
Electromagnetic Compatibility

Registration No.: AE 50617971 0001

Product: Power Supply
(DIN RAIL POWER SUPPLIES)

Tested according to:
EN 55032:2015+A11+A1
EN 55035:2017+A11
EN IEC 61000-3-2:2019+A1
EN 61000-3-3:2013+A1+A2

Identification: Type Designation
DIN15W5, DIN15W12, DIN15W15, DIN15W24, DIN15W48
Serial No.: n.a.
Remark: Refer to test report CN23HEQP 001 for details.

TÜV Rheinland LGA Products GmbH
TÜVRheinland
Zertifizierungsstelle

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TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE **The CE marking may be used if all relevant and effective EC Directives/Regulations are complied with.** CE

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ul. Handlowa 13
41-807 Zabrze

UK DECLARATION OF CONFORMITY

For the following equipment:

Part No.:	**DIN15WX (X = 5, 12, 15, 24, 48)**
Batch No.:	**GLP23xxxxxxxxxxxxx**

is herewith confirmed to comply with the following standards and regulations:

STATUTORY INSTRUMENTS 2012 No. 3032 - The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.

COMMISION REGULATION (EU) 2019/2020 – Ecodesign for light sources and separate control gears.

Electrical Equipment (SAFETY) Regulations 2016

STANDARD	DESCRIPTION
BS EN IEC 62368-1:2020+A11:2020	Audio/video, information and communication technology equipment - Safety requirements

Electrical Compatibility Regulations 2016

STANDARD	DESCRIPTION
BS EN 55032:2015 + A11:2020	Electromagnetic compatibility of multimedia equipment. Emission Requirements
BS EN 55035:2017+A11:2020	Electromagnetic compatibility of multimedia equipment. Immunity requirements
BS EN IEC 61000-3-2:2019+A1:2021	Electromagnetic compatibility (EMC) - Limits. Limits for harmonic current emissions (equipment input current ≤16 A per phase)
BS EN 61000-3-3:2013+A2:2021	Electromagnetic compatibility (EMC) - Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Zabrze, 16.01.2023r.

MPL Power Elektro Sp z o.o.
ul. Handlowa 13, 41-807 Zabrze
NIP 6312457646, REGON 240105606

Company stamp

KIEROWNIK
Działu Technicznego
Łukasz Jaromin

Person signature and stamp

DIN30W series

30W Din Rail Power Supply



■Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Isolation class II
- Can be installed on DIN Rail TS-35/7 or 15

LPS SELV

ELECTRICAL SPECIFICATION

MODEL	DIN30W12	DIN30W15	DIN30W24
OUTPUT			
Rated Voltage	12V	15V	24V
Rated Current	2.5A	2.0A	1.25A
Current Range	0 ÷ 2.5A	0 ÷ 2.0A	0 ÷ 1.25A
Rated Power	30W	30W	30W
No Output Voltage (max.)	12.6V	16V	25.2V
Voltage Adjustment Range [6]	10.8 – 13.6V	13.5 – 16.5V	22 – 28V
Line Reglation	± 1%		
Load Reglation	± 2%		
Voltage Tolerance [3]	± 5%		
Ripple & Noise (max.) [2]	240mV$_{P-P}$	240mV$_{P-P}$	320mV$_{P-P}$
Setup, Rise Time [4]	500ms, 60ms / 230VAC at full load		
Hold up Time (typ., at full load)	20ms / 230VAC	30ms / 230VAC	30ms / 230VAC

INPUT						
Voltage Range	180 ÷ 264VAC					
Frequency Range	47 ÷ 63Hz					
Efficiency (typ.)	84%		85%		85%	
AC current (typ.)	0.45A / 230VAC					
Inrush current (max.)	28A / 230VAC; T_{WIDTH} (50% peak) = 550µs					
Max. No. Of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16
	10	16	10	16	21	34
No Load Power Consumption (max.)	< 0.5W					

PROTECTIONS

Over Current	Range: 120 ÷ 210%		
	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Over Voltage	18-23V	24-30V	36-45V
	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Over Temperature	Range: NTC detect		
	Type: shut down output voltage. Re-power on to recovery.		

WORKING ENVIRONMENT

Working Temperature	-20°C ÷ +50°C
Working Humidity	45 ÷ 85% RH non-condensing
Storage Temperature and Humidity	-30°C ÷ +70°C, 10 ÷ 95% RH non-condensing

SAFETY AND EMC REGULATIONS

Safety Standards	Compliance to EN62368-1
Withstand Voltage	IN/OUT: 3.75kVAC
EMC Emission	Compliance to EN55032
EMC Immunity	Compliance to EN55035
Harmonic Current	Compliance to EN 61000-3-3; EN 61000-3-2

OTHERS

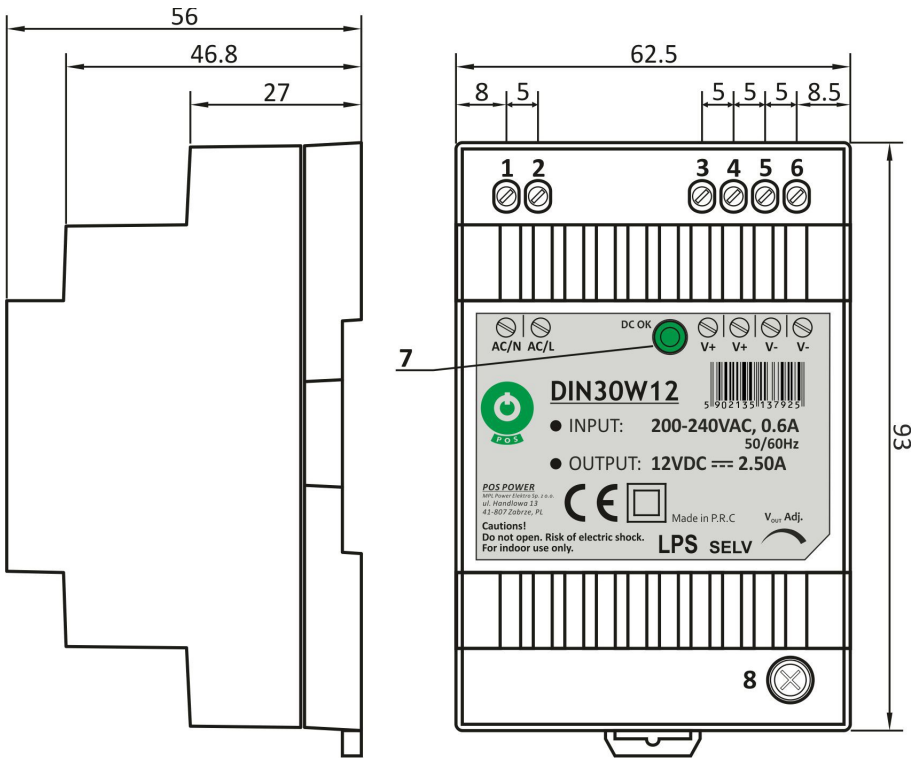
Dimensions	62.5 x 93 x 56mm (L x W x H)
Weight and Packing	0.210kg; 50pcs./box; weiht box and dimensions: 11kg; 37.05 x 23.6 x 33.5cm
EAN Code	5 902135 137925 / 5 901885 200460 / 5 902135 137932

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5.Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.
6. By built-in potentiometer.

MECHANICAL SPECIFICATION

DIN30W series

30W Din Rail Power Supply



PIN ASSIGNMENT

No.	Assignment	No.	Assignment
1	Input: AC/N	3,4	Output: U_{OUT} +
2	Input: AC/L	5,6	Output: U_{OUT} -
		7	LED indication for power on
		8	U_{OUT} adjustment

MPL POWER ELEKTRO

MPL POWER ELEKTRO Sp. z o.o.
ul. Handlowa 13
41-807 Zabrze

CE

DEKLARACJA ZGODNOŚCI UE

/EU DECLARATION OF CONFORMITY

Deklarujemy zgodność produktu: */For the following equipment:*

Oznaczenie: */Part No.:*	**DIN30WX (X = 5, 12, 15, 24, 36, 48)**
Numer partii: */Batch No.*	**GLP20xxxxxxxxxxxxx**
Opis: */Description.:*	**Zasilacz impulsowy** */Switching power supply*

z wymaganiami następujących przepisów oraz norm Unii Europejskiej: */is herewith confirmed to comply with the requirements set out in the Council Directive, the following standards were applied:*

Dyrektywy ROHS 2011/65/UE, 2015/863/UE, 2017/2102/UE
/ROHS Directives 2011/65/EU, 2015/863/EU, 2017/2102/EU

Dyrektywa LVD 2014/35/UE
/Low Voltage Directive 2014/35/EU

Zastosowana norma */Standard*	**Opis** */Description*
EN 62368-1:2020 + A11:2020	Urządzenia techniki fonicznej/wizyjnej, informatycznej i telekomunikacyjnej -- Część 1: Wymagania bezpieczeństwa */Audio/video, information and communication technology equipment. Safety requirements*

Dyrektywa EMC 2014/30/UE:
/Electromagnetic Compatibiity Directive 2014/30/EU

Zastosowana norma	**Opis**
EN 55032:2015 + A11:2020	Kompatybilność elektromagnetyczna urządzeń multimedialnych – Wymagania dotyczące emisji */Electromagnetic compatibility of multimedia equipment. Emission Requirements*
EN 55035:2017	Kompatybilność elektromagnetyczna urządzeń multimedialnych – Wymagania dotyczące odporności */Electromagnetic compatibility of multimedia equipment. Immunity requirements*
EN61000-3-2:2019	Kompatybilność elektromagnetyczna (EMC) -- Część 3-2: Poziomy dopuszczalne -- Poziomy dopuszczalne emisji harmonicznych prądu (fazowy prąd zasilający odbiornika ≤ 16 A) */Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*
EN61000-3-3:2013 + A1:2019	Kompatybilność elektromagnetyczna (EMC) -- Część 3-3: Poziomy dopuszczalne -- Ograniczanie zmian napięcia, wahań napięcia i migotania światła w publicznych sieciach zasilających niskiego napięcia, powodowanych przez odbiorniki o fazowym prądzie znamionowym < lub = 16 A przyłączone bezwarunkowo */Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <=16 A per phase and not subject to conditional connection*

Niniejsza deklaracja zgodności wydana zostaje na wyłączną odpowiedzialność producenta.
/This declaration of conformity is issued under the sole responsibility of the manufacturer.

Zabrze, 02.12.2020r.

MPL Power Elektro Sp z o.o.
ul. Handlowa 13, 41-807 Zabrze
NIP 6312457646, REGON 240105606

Pieczęć firmy */Company stamp*

KIEROWNIK
Działu Technicznego
Łukasz Jaromin

Podpis i pieczęć osoby */Person signature and stamp*

C E R T I F I C A T E

of Conformity
EC Council Directive (EU) 2014/30
Electromagnetic Compatibility

Registration No.: AE 50618154 0001

Report No.: CN23ILV3 001

Holder: MPL Power Elektro Sp. z o.o
ul. Handlowa 13 41-807
Zabrze,
Poland

Product: Power Supply
(DIN RAIL POWER SUPPLIES)

Type designation listed on the next page

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the License Holder`s disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive (EU) 2014/30. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

Certification Body

Gary Chen

Date: 2024-01-26

TÜV Rheinland LGA Products GmbH
TÜVRheinland
Zertifizierungsstelle

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TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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C E R T I F I C A T E

of Conformity
EC Council Directive (EU) 2014/30
Electromagnetic Compatibility

Registration No.: AE 50618154 0001

Product: Power Supply
(DIN RAIL POWER SUPPLIES)

Tested according to:
EN 55032:2015+A11+A1
EN 55035:2017+A11
EN IEC 61000-3-2:2019+A1
EN 61000-3-3:2013+A1+A2

Identification: Type Designation
DIN30W5, DIN30W12, DIN30W15, DIN30W24, DIN30W48
Serial No.: n.a.
Remark: Refer to test report CN23ILV3 001 for details.

TÜV Rheinland LGA Products GmbH
TÜVRheinland
Zertifizierungsstelle

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TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE **The CE marking may be used if all relevant and effective EC Directives/Regulations are complied with.** CE

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MPL POWER ELEKTRO Sp. z o.o.
ul. Handlowa 13
41-807 Zabrze

UK DECLARATION OF CONFORMITY

For the following equipment:

Part No.:	**DIN30WX (X = 5, 12, 15, 24, 48)**
Batch No.:	**GLP23xxxxxxxxxxxxx**

is herewith confirmed to comply with the following standards and regulations:

STATUTORY INSTRUMENTS 2012 No. 3032 - The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.

COMMISION REGULATION (EU) 2019/2020 – Ecodesign for light sources and separate control gears.

Electrical Equipment (SAFETY) Regulations 2016

STANDARD	DESCRIPTION
BS EN IEC 62368-1:2020+A11:2020	Audio/video, information and communication technology equipment - Safety requirements

Electrical Compatibility Regulations 2016

STANDARD	DESCRIPTION
BS EN 55032:2015 + A11:2020	Electromagnetic compatibility of multimedia equipment. Emission Requirements
BS EN 55035:2017+A11:2020	Electromagnetic compatibility of multimedia equipment. Immunity requirements
BS EN IEC 61000-3-2:2019+A1:2021	Electromagnetic compatibility (EMC) - Limits. Limits for harmonic current emissions (equipment input current ≤16 A per phase)
BS EN 61000-3-3:2013+A2:2021	Electromagnetic compatibility (EMC) - Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Zabrze, 16.01.2023r.

MPL Power Elektro Sp z o.o.
ul. Handlowa 13, 41-807 Zabrze
NIP 6312457646, REGON 240105606

Company stamp

KIEROWNIK
Działu Technicznego
Łukasz Jaromin

Person signature and stamp

DIN60W series

60W Din Rail Power Supply



■Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Isolation class II
- Can be installed on DIN Rail TS-35/7 or 15

LPS SELV

ELECTRICAL SPECIFICATION

MODEL	DIN60W12	DIN60W15	DIN60W24
Rated Voltage	12V	15V	24V
Rated Current	5A	4A	2.5A
Current Range	0 ÷ 5A	0 ÷ 4A	0 ÷ 2.5A
Rated Power	60W	60W	60W
No Output Voltage (max.)	12.6V	16V	26V
Voltage Adjustment Range [6]	10.7 – 13.5V	13.5 - 17V	23 – 26V
Line Reglation	± 1%		
Load Reglation	± 2%		
Voltage Tolerance [3]	± 5%		
Ripple & Noise (max.) [2]	240mV$_{P-P}$		320mV$_{P-P}$
Setup, Rise Time [4]	500ms, 60ms / 230VAC at full load		
Hold up Time (typ., at full load)	40ms / 230VAC		50ms / 230VAC

INPUT

Voltage Range	180 ÷ 264VAC					
Frequency Range	47 ÷ 63Hz					
Efficiency (typ.)	88%				89,00%	
AC current (typ.)	0.7A / 230VAC					
Inrush current (max.)	29,5A / 230VAC; T_{WIDTH} (50% peak) = 670µs					
Max. No. Of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16
	8	13	8	13	17	27
No Load Power Consumption (max.)	< 0.5W					

PROTECTIONS

Over Current	Range: 120 ÷ 200%		
	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Over Voltage	18-23V	22-30V	24-48V
	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Over Temperature	Range: NTC detect		
	Type: shut down output voltage. Auto-recovery.		

WORKING ENVIRONMENT

Working Temperature	-20°C ÷ +50°C
Working Humidity	45 ÷ 85% RH non-condensing
Storage Temperature and Humidity	-30°C ÷ +70°C, 10 ÷ 95% RH non-condensing

SAFETY AND EMC REGULATIONS

Safety Standards	Compliance to EN62368-1
Withstand Voltage	IN/OUT: 3.75kVAC
EMC Emission	Compliance to EN55032
EMC Immunity	Compliance to EN55035
Harmonic Current	Compliance to EN 61000-3-3; EN 61000-3-2

OTHERS

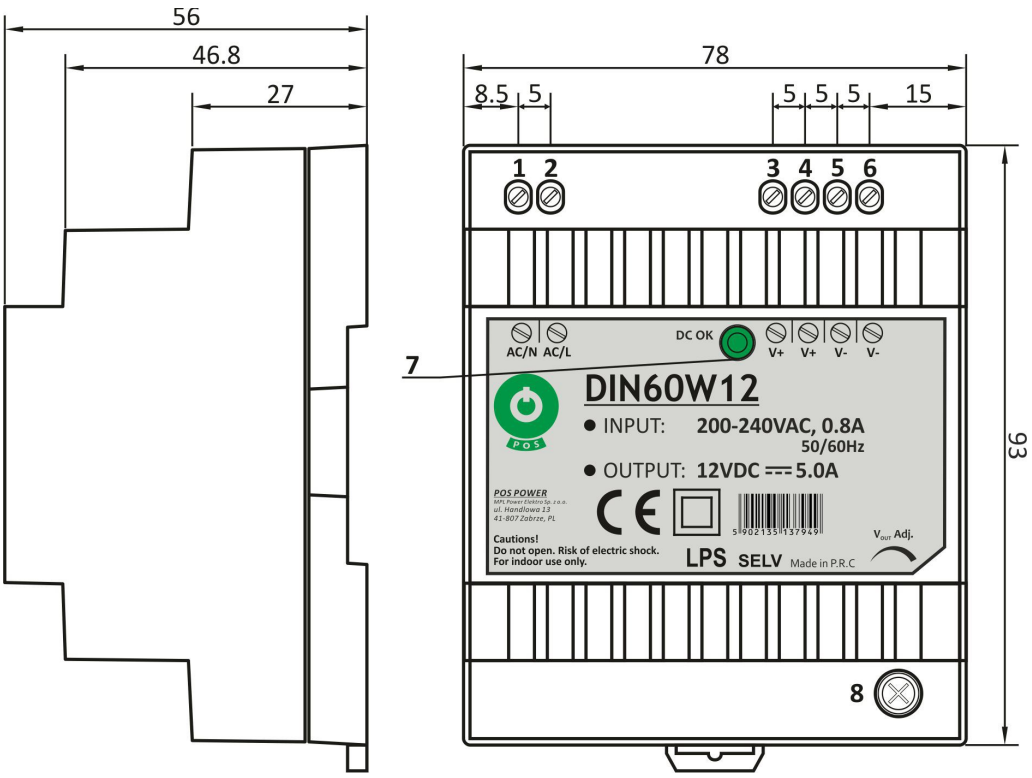
Dimensions	78 x 93 x 56mm (L x W x H)
Weight and Packing	0.240kg; 50pcs./box; weiht box and dimensions: 13kg; 45.6 x 22 x 34 cm
EAN Code	5 902135 137949 / 5 902135 152119 / 5 902135 137956

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
4. Setup and rise time is measured from 0 to 90% rated output voltage.
5.Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.
6. By built-in potentiometer.

MECHANICAL SPECIFICATION

DIN60W series

60W Din Rail Power Supply



PIN ASSIGNMENT

No.	Assignment	No.	Assignment
1	Input: AC/N	3,4	Output: U_{OUT} +
2	Input: AC/L	5,6	Output: U_{OUT} -
		7	LED indication for power on
		8	U_{OUT} adjustment

MPL POWER ELEKTRO Sp. z o.o.
ul. Handlowa 13
41-807 Zabrze

DEKLARACJA ZGODNOŚCI UE

/EU DECLARATION OF CONFORMITY

Deklarujemy zgodność produktu: */For the following equipment:*

Oznaczenie: */Part No.:*	**DIN60WX (X = 5, 12, 15, 24, 36, 48)**
Numer partii: */Batch No.*	**GLP20xxxxxxxxxxxxx**
Opis: */Description.:*	**Zasilacz impulsowy** */Switching power supply*

z wymaganiami następujących przepisów oraz norm Unii Europejskiej: */is herewith confirmed to comply with the requirements set out in the Council Directive, the following standards were applied:*

Dyrektywy ROHS 2011/65/UE, 2015/863/UE, 2017/2102/UE
/ROHS Directives 2011/65/EU, 2015/863/EU, 2017/2102/EU

Dyrektywa LVD 2014/35/UE
/Low Voltage Directive 2014/35/EU

Zastosowana norma */Standard*	**Opis** */Description*
EN 62368-1:2020 + A11:2020	Urządzenia techniki fonicznej/wizyjnej, informatycznej i telekomunikacyjnej -- Część 1: Wymagania bezpieczeństwa */Audio/video, information and communication technology equipment. Safety requirements*

Dyrektywa EMC 2014/30/UE:
/Electromagnetic Compatibiity Directive 2014/30/EU

Zastosowana norma	**Opis**
EN 55032:2015 + A11:2020	Kompatybilność elektromagnetyczna urządzeń multimedialnych – Wymagania dotyczące emisji */Electromagnetic compatibility of multimedia equipment. Emission Requirements*
EN 55035:2017	Kompatybilność elektromagnetyczna urządzeń multimedialnych – Wymagania dotyczące odporności */Electromagnetic compatibility of multimedia equipment. Immunity requirements*
EN61000-3-2:2019	Kompatybilność elektromagnetyczna (EMC) -- Część 3-2: Poziomy dopuszczalne -- Poziomy dopuszczalne emisji harmonicznych prądu (fazowy prąd zasilający odbiornika ≤ 16 A) */Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)*
EN61000-3-3:2013 + A1:2019	Kompatybilność elektromagnetyczna (EMC) -- Część 3-3: Poziomy dopuszczalne -- Ograniczanie zmian napięcia, wahań napięcia i migotania światła w publicznych sieciach zasilających niskiego napięcia, powodowanych przez odbiorniki o fazowym prądzie znamionowym < lub = 16 A przyłączone bezwarunkowo */Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <=16 A per phase and not subject to conditional connection*

Niniejsza deklaracja zgodności wydana zostaje na wyłączną odpowiedzialność producenta.
/This declaration of conformity is issued under the sole responsibility of the manufacturer.

Zabrze, 02.12.2020r.

MPL Power Elektro Sp z o.o.
ul. Handlowa 13, 41-807 Zabrze
NIP 6312457646, REGON 240105606

Pieczęć firmy */Company stamp*

KIEROWNIK
Działu Technicznego
Łukasz Jaromin

Podpis i pieczęć osoby */Person signature and stamp*

C E R T I F I C A T E

of Conformity
EC Council Directive (EU) 2014/30
Electromagnetic Compatibility

Registration No.: AE 50618174 0001

Report No.: CN23V8XX 001

Holder: MPL Power Elektro Sp. z o.o
ul. Handlowa 13 41-807
Zabrze,
Poland

Product: Power Supply
(DIN RAIL POWER SUPPLIES)

Type designation listed on the next page

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the License Holder`s disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive (EU) 2014/30. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

Certification Body

Date: 2024-01-26

Gary Chen

TÜV Rheinland LGA Products GmbH
TÜVRheinland
Zertifizierungsstelle

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C E R T I F I C A T E

of Conformity
EC Council Directive (EU) 2014/30
Electromagnetic Compatibility

Registration No.: AE 50618174 0001

Product: Power Supply
(DIN RAIL POWER SUPPLIES)

Tested according to:
EN 55032:2015+A11+A1
EN 55035:2017+A11
EN IEC 61000-3-2:2019+A1
EN 61000-3-3:2013+A1+A2

Identification: Type Designation
DIN60W5, DIN60W12, DIN60W15, DIN60W24, DIN60W48
Serial No.: n.a.
Remark: Refer to test report CN23V8XX 001 for details.

TÜV Rheinland LGA Products GmbH
TÜVRheinland
Zertifizierungsstelle

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ul. Handlowa 13
41-807 Zabrze

UK DECLARATION OF CONFORMITY

For the following equipment:

Part No.:	**DIN60WX (X = 5, 12, 15, 24, 48)**
Batch No.:	**GLP23xxxxxxxxxxxxx**

is herewith confirmed to comply with the following standards and regulations:

STATUTORY INSTRUMENTS 2012 No. 3032 - The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.

COMMISION REGULATION (EU) 2019/2020 – Ecodesign for light sources and separate control gears.

Electrical Equipment (SAFETY) Regulations 2016

STANDARD	DESCRIPTION
BS EN IEC 62368-1:2020+A11:2020	Audio/video, information and communication technology equipment - Safety requirements

Electrical Compatibility Regulations 2016

STANDARD	DESCRIPTION
BS EN 55032:2015 + A11:2020	Electromagnetic compatibility of multimedia equipment. Emission Requirements
BS EN 55035:2017+A11:2020	Electromagnetic compatibility of multimedia equipment. Immunity requirements
BS EN IEC 61000-3-2:2019+A1:2021	Electromagnetic compatibility (EMC) - Limits. Limits for harmonic current emissions (equipment input current ≤16 A per phase)
BS EN 61000-3-3:2013+A2:2021	Electromagnetic compatibility (EMC) - Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Zabrze, 16.01.2023r.

MPL Power Elektro Sp z o.o.
ul. Handlowa 13, 41-807 Zabrze
NIP 6312457646, REGON 240105606

Company stamp

KIEROWNIK
Działu Technicznego
Łukasz Jaromin

Person signature and stamp

C E R T I F I C A T E

of Conformity
EC Council Directive (EU) 2014/30
Electromagnetic Compatibility

Registration No.: AE 50618242 0001

Report No.: CN236VBC 001

Holder: MPL Power Elektro Sp. z o.o
ul. Handlowa 13 41-807
Zabrze,
Poland

Product: Power Supply
(DIN RAIL POWER SUPPLIES)

Type designation listed on the next page

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Certification Body

Date: 2024-01-26

Gary Chen

TÜV Rheinland LGA Products GmbH
TÜVRheinland
Zertifizierungsstelle

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C E R T I F I C A T E

of Conformity
EC Council Directive (EU) 2014/30
Electromagnetic Compatibility

Registration No.: AE 50618242 0001

Product: Power Supply
(DIN RAIL POWER SUPPLIES)

Tested according to:
EN 55032:2015+A11+A1
EN 55035:2017+A11
EN IEC 61000-3-2:2019+A1
EN 61000-3-3:2013+A1+A2

Identification: Type Designation
DIN100W5, DIN100W12, DIN100W15, DIN100W24, DIN100W48
Serial No.: n.a.
Remark: Refer to test report CN236VBC 001 for details.

TÜV Rheinland LGA Products GmbH
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41-807 Zabrze

DEKLARACJA ZGODNOŚCI UE

/EU DECLARATION OF CONFORMITY

Deklarujemy zgodność produktu: */For the following equipment:*

Oznaczenie: */Part No.:*	**DIN100WX (X = 5, 12, 15, 24, 36, 48)**
Numer partii: */Batch No.*	**GLP20xxxxxxxxxxxxx**
Opis: */Description.:*	**Zasilacz impulsowy** */Switching power supply*

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Zabrze, 02.12.2020r.

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ul. Handlowa 13, 41-807 Zabrze
NIP 6312457646, REGON 240105606

Pieczęć firmy */Company stamp*

KIEROWNIK
Działu Technicznego
Łukasz Jaromin

Podpis i pieczęć osoby */Person signature and stamp*

DIN100W series

100W Din Rail Power Supply



■Features:

- Constant voltage design
- European AC input range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Isolation class II
- Can be installed on DIN Rail TS-35/7 or 15

CE SELV

ELECTRICAL SPECIFICATION

MODEL	DIN100W12	DIN100W15	DIN100W24
Rated Voltage	12V	15V	24V
Rated Current	8.3A	6.6A	4.15A
Current Range	0 ÷ 8.3A	0 ÷ 6.6A	0 ÷ 4.15A
Rated Power	100W	99W	100W
No Output Voltage (max.)	12.6V	16V	26.05.2022
Voltage Adjustment Range [6]	10.7 – 13.5V	13.5 - 17V	22 – 28V
Line Reglation	± 1%		
Load Reglation	± 2%		
Voltage Tolerance [3]	± 5%		
Ripple & Noise (max.) [2]	240mV$_{P-P}$		320mV$_{P-P}$
Setup, Rise Time [4]	400ms, 65ms / 230VAC at full load		
Hold up Time (typ., at full load)	30ms / 230VAC		30ms / 230VAC

INPUT

Voltage Range	180 ÷ 264VAC					
Frequency Range	47 ÷ 63Hz					
Efficiency (typ.)	86%				90%	
AC current (typ.)	0.9A / 230VAC					
Inrush current (max.)	40A / 230VAC; T_{WIDTH} (50% peak) = 670µs					
Max. No. Of PSU on Circuit Breaker	B10	B16	C10	C16	D10	D16
	5	8	5	8	11	17
No Load Power Consumption (max.)	< 0.5W					

PROTECTIONS

Over Current	Range: 120 ÷ 200%		
	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Short Circuit	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Over Voltage	16-24V	22-30V	30-48V
	Type: hiccup mode. Recovers automatically after fault condition is removed.		
Over Temperature	Range: NTC detect		
	Type: shut down output voltage. Re-power on to recovery.		

WORKING ENVIRONMENT

Working Temperature	-20°C ÷ +50°C
Working Humidity	45 ÷ 85% RH non-condensing
Storage Temperature and Humidity	-30°C ÷ +70°C, 10 ÷ 95% RH non-condensing

SAFETY AND EMC REGULATIONS

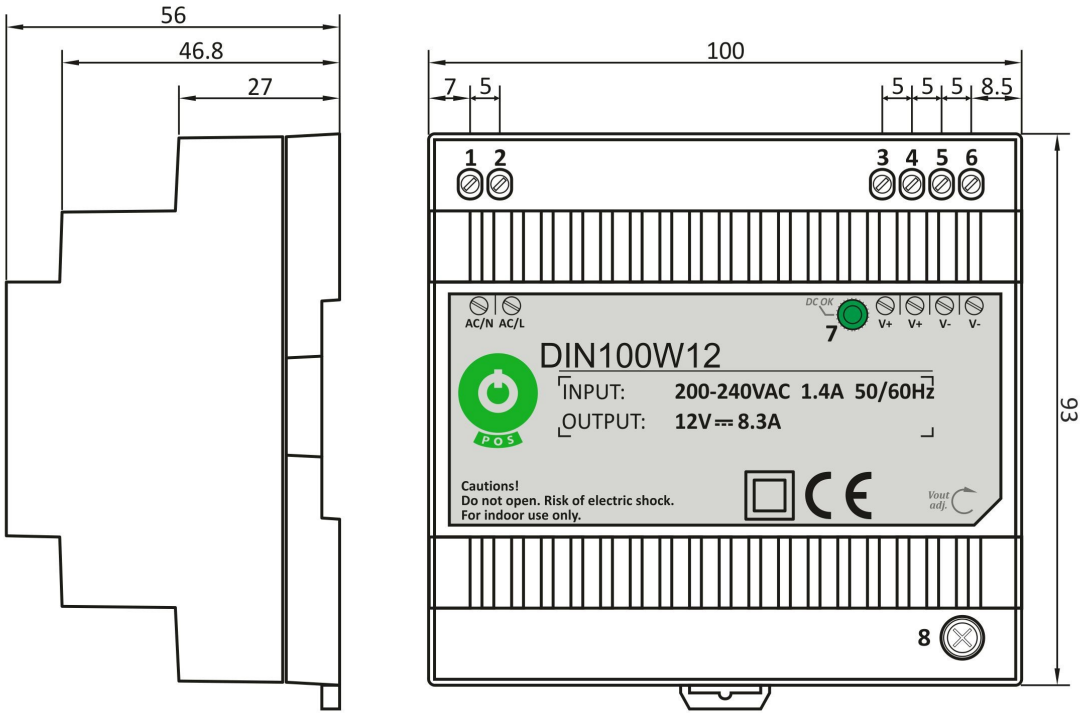
Safety Standards	Compliance to EN62368-1
Withstand Voltage	IN/OUT: 3.75kVAC
EMC Emission	Compliance to EN55032
EMC Immunity	Compliance to EN55035
Harmonic Current	Compliance to EN 61000-3-3; EN 61000-3-2

OTHERS

Dimensions	100 x 93 x 56mm (L x W x H)
Weight and Packing	0.33kg; 30pcs./box; weiht box and dimensions: 9.9kg; 33.5 x 23.6 x 35.2 cm
EAN Code	5902135137963 5902135152959 5902135137970

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μF i 47μF parallel capacitor.
3. Tolerance includes set up tolerance, line regulation and load regulation.
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