

MSWC

CATV broadband stabilised power supplies

Soundless power supplies



OLTRONIX

Industrial Power Supplies b.v.

CATV broadband stabilised power supplies for street cabinets or indoor

The MSWC series is specially designed for street cabinet or indoor applications within the cable television industry.

Based on advanced technologies the MSWC series is a very reliable power source for network architectures.

The MSWC series is developed in close cooperation with cable providers and has reached the top level of reliability and functionality.

Advanced features as rugged casing with strong heat reduction capabilities and a wide range of output voltages make the MSWC serie an ideal power source for CATV.

The Oltronix MSWC series of stabilised power supplies is based on the ferro resonant principle.

The CATV series outdoor is divided in: MSWCo series 500 VA, 700, 1000 and 1400 VA.

CE-standards applied:

EN 50091-2
EN 61000-3-2
EN 61000-3-3
EN 60950

Street cabinet or indoor



General features:

- Stabilised output.
- Strong heat reduction.**
- Short circuit proof.
- Protected against continuous overload.
- High efficiency.
- Strong suppression of transients.
- High reliability.
- According to IEC 742/EN 60742.
- Rugged stainless steel casing.
- CE approved.
- Suitable for customer made adaptations.
- Wide range of input and output voltages.

Nominal specifications

Model	Input voltage [VAC]	Input frequency [Hz]	Output voltage [VAC]	Output current [A]	Maximum output power [VA]
MSWC 500	230	50 *)	42...60 *)	12...7,7	500
MSWC 700	230	50 *)	42...60 *)	17...11	700
MSWC 1000	230	50 *)	42...60 *)	24..17	1000
MSWC 1400	230	50 *)	42..60 *)	33...23,5	1400

*) Other line frequencies, input/output voltages on request.

General specifications

Input

Input voltage:	230V~ ±15%
Transient suppression:	80dB (10kHz-1MHz)
Isolation test voltage:	5600VDC

AC Output

Waveform:	square wave
Transformer efficiency:	92%
Line regulation (Us=±15%):	<2%
Load regulation (Iex=25-100%):	<2%
Max. short-circuit current:	150% of nom output current.
Isolation test voltage (output-case):	1000VDC

Sound pressure level: 30 dB(A)

Mechanical

Dimensions: appr.

MSWC 500-700	160x320x180 mm [wxhxd]
MSWC 1000	160x360x180 mm [wxhxd]
MSWC 1400	160x360x180 mm [wxhxd]

Weight 500/700/1000/1400: appr. 13/17/20/23kg

Finish: stainless steel

Options

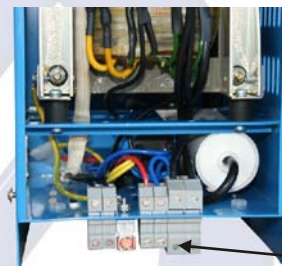
- input/output fuse
- current test terminals
- powder coating
- RF connector
- multiple AC outputs
- 24Vdc output
- internal terminal block or feed-through terminal block



Internal terminal block



RF coax connector



Feed-through terminal block

Environment

Operating temperature:	-40 to +70 °C*)
Safety:	EN 60950
EMC:	EN 50091-2

*) MSWC 1000 and 1400 -40 to +55 °C

CATV broadband stabilised power supplies

Pole or wall mounting (outdoor)

The MSWCo series is specially designed for pole or wall mounting (outdoor) applications within the cable television industry. Based on advanced technologies the MSWC series is a very reliable power source for network architectures.

The MSWCo series is developed in close cooperation with cable providers and has reached the top level of reliability and functionality.

Advanced features as rugged casing with strong heat reduction capabilities and a wide range of output voltages make the MSWCo serie an ideal power source for CATV.

The Oltronix MSWCo series of stabilised power supplies is based on the ferro resonant principle. The CATV series outdoor is divided in: MSWCo series 500 VA, 700 VA and 900 VA.

CE-standards applied:

- EN 50091-2
- EN 61000-3-2
- EN 61000-3-3
- EN 60950

Pole or wall mounting/ Outdoor



General features:

- Stabilised output.
- Strong heat reduction.**
- Short circuit proof.
- Protected against continuous overload.
- High efficiency.
- Strong suppression of transients.
- High reliability.
- According to IEC 742/EN 60742.
- Rugged stainless steel casing.
- CE approved.
- Suitable for customer made adaptations.
- Wide range of input and output voltages.

Nominal specifications

Model	Input voltage [VAC]	Input frequency [Hz]	Output voltage [VAC]	Output current [A]	Maximum output power [VA]
MSWCo 500	230	50 *)	42...60 *)	12...7,7	500
MSWCo 700	230	50 *)	42...60 *)	17...11	700
MSWCo 900	230	50 *)	42...60 *)	21,5..15	900

*) Other line frequencies, input/output voltages on request.

General specifications

Input

Input voltage:	230V~ ±15%
Transient suppression:	80dB (10kHz-1MHz)
Isolation test voltage:	5600VDC

AC Output

Waveform:	square wave
Transformer efficiency:	92%
Line regulation (Us=±15%):	<2%
Load regulation (Iex=25-100%):	<2%
Max. short-circuit current:	150% of nom output current.
Isolation test voltage (output-case):	1000VDC

Sound pressure level: 30 dB(A)

Options

- power switch
- output indicator light
- input/output fuse
- current test terminals
- powder coating
- RF connector
- plug in connector for generator



Mechanical

Dimensions: appr.

MSWC) 500-700-900 165x321x198 mm [wxhxd]

Weight 500/700/900: appr. 13kg /17/18kg

Finish: stainless steel

Environment

Operating temperature: -40 to +70°C*)
 Safety: EN 60950
 EMC: EN 50091-2

*) MSWCo 900 -40 to +55°C

CATV broadband stabilised power supplies

The MSWCac/dc series is specially designed for applications within the cable television industry. Based on advanced technologies the MSWC series is a very reliable power source for network architectures.

The MSWC series is developed in close cooperation with cable providers and has reached the top level of reliability and functionality.

Advanced features as rugged casing with strong heat reduction capabilities and a wide range of output voltages make the MSWC serie an ideal power source for CATV.

The Oltronix MSWC series of stabilised power supplies is based on the ferro resonant principle. The CATV series is divided in: MSWC series up to 1400 VA.

CE-standards applied:

EN 50091-2
EN 61000-3-2
EN 61000-3-3
EN 60950

Aluminium extrusion for heat reduction



General features:

- Stabilised output.
- Strong heat reduction.**
- Short circuit proof.
- Protected against continuous overload.
- High efficiency.
- Strong suppression of transients.
- High reliability.
- According to IEC 742/EN 60742.
- Rugged aluminium casing IP20.
- CE approved.
- Suitable for customer made adaptations.
- Wide range of input and output voltages.

Nominal specifications

Model	Input voltage [VAC]	Input frequency [Hz]	Output voltage [VAC]	Output current [A]	Maximum output power [VA]	Output Voltage [VDC]	Output Current [A]	Maximum output power [VA]
MSWC _{ac/dc} 1050	230	50 *)	42...60 *)	25...17,5	1050	24 *)	7,5	180
MSWC _{ac/dc} 1400	230	50 *)	42...60 *)	32...23	1400	24 *)	7,5	180
MSWC _{ac/dc} 1800	230	50 *)	42...60 *)	43...30	1800	24 *)	7,5	180

*) Other line frequencies, input/output voltages on request.

For higher output power see type MSWC² serie.

General specifications

Input

Input voltage:	230V~ ±15%
Transient suppression:	80dB (10kHz-1MHz)
Isolation test voltage:	5600VDC

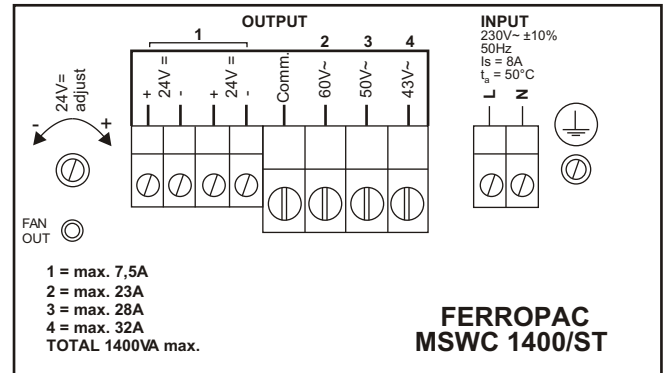
AC Output

Waveform:	square wave
Transformer efficiency:	92%
Line regulation (Us=±10%):	2V
Load regulation (Iex=25-100%):	3V
Max. short-circuit current:	36A
Isolation test voltage (output-case):	1000VDC

DC Output

Line regulation (Us=+/-10%):	< 0,1%
Load regulation (Iex=0-100%):	< 2%
Ripple:	(20Hz-30MHz) < 5mV

Sound pressure level:	45 dB(A)
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Frontpanel of the MSWC 1400 with a broad variety of output voltages.

Mechanical

Dimensions:

MSWC-ac/dc 1050	188x360x188 mm [bxhxd]
MSWC-ac/dc 1400	188x360x188 mm [bxhxd]
MSWC-ac/dc 1800	188x360x188 mm [bxhxd]

Weight:	appr. 23kg
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Finish: Blue powder coated aluminium and stainless steel

Environment

Operating temperature:	-40 to +70°C
Safety:	EN 60950
EMC:	EN 50091-2

CATV broadband stabilised power supplies

MSWC² series

In order to comply with the needs of the Cable providers for power supplies with extending power, the MSWC² has been developed.

The MSWC² serie is used in places where, due to expansion of the cable network, the original power supply has reached its limit.

Due to the large power combined with its small dimensions, in most cases the MSWC² series will solve this problem.

Aluminium extrusion profile for heat reduction



General features:

Stabilised output..

Strong heat reduction.

Short circuit proof.

Protected against continuous overload.

High efficiency.

Strong suppression of transients.

High reliability.

According to IEC 742/EN 60742.

Rugged aluminium casing IP20.

CE approved.

Suitable for customer made adaptations.

Wide range of input and output voltages.

CE-standards applied:

EN 50091-2

EN 61000-3-2

EN 61000-3-3

EN 60950

Nominal specifications

Model	Input voltage [VAC]	Input frequency [Hz]	Output voltage [VAC]	Output current [A]	Maximum output power [VA]
MSWC ² 2100	230	50 *)	42...60 *)	50...35	2100

DC output on request.

*) Other line frequencies, input/output voltages on request.

General specifications

Input

Input voltage:	230V~ +6/-10% **)
Transient suppression:	80dB (10kHz-1MHz)
Isolation test voltage:	5600VDC

AC Output

Waveform:	square wave
Transformer efficiency:	91%
Line regulation (Us=-6/+10%):	1V
Load regulation (Iex=25-100%):	1V
Max. short-circuit current:	73A
Isolation test voltage (output-case):	1000VDC

DC Output

On request

Sound pressure level: 45 dB(A)

Mechanical

Dimensions:

MSWC² 2100 140x380x220 mm [bxhxd]

Weight: 23kg

Finish: Bleu powder coated aluminium and stainless steel

Environment

Operating temperature:	-20 to +70° C
Safety:	EN 60950
EMC:	EN 50091-2



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