

# Reference data

## Protection Box 1 DIN

MGE UPS SYSTEMS



Product	MGE Ref	Short description
Protection Box 1 DIN	66708	High-performance surge protection for household appliances, computers and office equipment. 1 outlet, compatible with standards for lightning protection, warranty for connected equipment up to 12 000 Euros

Packaging	Size (W x D x H*, mm)	Weight (kg)	Number of Units / Packaging	Bar Code
Individual Pack	92 x 139,5 x 80	0,242	1 product / pack	3553340667084
Transport Carton	490 x 300 x 90	3	10 packs / carton	
Pallet	1210 x 1000 x 1090	273,6	800 packs / pallet (=80 transport cartons per pallet)	

Packaging content
1 retail pack with 1 single-outlet compact surge suppressor + 9-language User manual + Warranty for connected equipment up to 12 000 Euros

Technical Specifications	
Electrical specifications	220-250V, 16 A, 50-60 Hz
Power rating	3250 W
Surge protection	30 000 A (3 x MOV 10 000 A)
Performances tested according to IEC 61 643-1 standard for Surge Protective Device on an 8/20 $\mu$ s waveform	For a surge of $U_{oc} = 6,6$ kV Protection level $U_p = 1,5$ kV Nominal discharge current $I_n = 2,5$ kA Max discharge current $I_{max} = 8$ kA
Total energy dissipation	1110 Joules
Response time	<1 ns
User interface	Active protection indicator, power on indicator
Installation	Require earth connection
Environment	For indoor, dry environment only
Color	Charcoal grey (RAL 7016)
Size (W x D x H*) / Weight	70 x 105 x 67mm / 0,194 kg
Warranty	2 year + warranty for connected equipment up to 12 000 Euros (applicable in EU countries and Norway only)
Technical standards	CE Mark, Safety : IEC 60 950, NFC 61-601, NFC 61-303 Surge Protective Device standard : IEC 61 643-1 CEM : EN 55082-2, EN55022 class B, EN 61000-4-4 level 4, IEC 61000-4-5 level X=10kV

Typical applications
<ul style="list-style-type: none"> <li>- Household appliances : Micro-wave, washing machine, tumble dryer, coffee machine, electric cooker, fridge (category A)</li> <li>- TV/Video : television, VCR, DVD player</li> <li>- Computer : PC/Mac + peripherals</li> <li>- Office equipment : photocopier, projector, printer</li> <li>- Fans, aquarium</li> </ul>

Key selling points
3 Protection of the power line by suppression of surges, spikes and line noise created by weather conditions or industrial environment
3 High-performance protection : 30 000 A surge protection systems, compatible with standards for Surge Protective Device IEC 61 643-1
3 Active protection indicator and power on indicator
3 Thermal protection
3 Safety shutters for children protection
3 Includes "Warranty for connected equipment up to 12 000 Euros" (for EU countries + Norway)

Conversion table	
New product	Phased-out product
Protection Box 1 DIN	New

\* W x D x H\* = Width x Depth x Height

# Reference data

## Protection Box 1 Tel@ DIN

MGE UPS SYSTEMS



Product	MGE Ref	Short description
Protection Box 1 Tel@ DIN	66709	High performance surge-protection for computer , phone, office equipment . 1 outlet with line protection for normal or high-speed Phone/Modem/Fax/Internet lines, compatible with standards for lightning protection, warranty for connected equipment up to 12 000 Euros

Packaging	Size (W x D x H*, mm)	Weight (kg)	Number of Units / Packaging	Bar Code
Individual Pack	92 x 139,5 x 80	0,242	1 product / pack	3553340667091
Transport Carton	490 x 300 x 90	3	10 packs / carton	
Pallet	1210 x 1000 x 1090	273,6	800 packs / pallet (=80 transport cartons per pallet)	

Packaging content
1 retail color pack with 1 single-outlet compact surge suppressor + 9-language User manual + Warranty for connected equipment up to 12 000 Euros

Technical Specifications	
Electrical specifications	220-250V, 16 A, 50-60 Hz
Power rating	3250 W
Surge protection	30 000 A (3 x MOV 10 000 A)
Performances tested according to IEC 61 643-1 standard for Surge Protective Device on an 8/20 $\mu$ s waveform	For a surge of $U_{oc} = 6,6$ kV Protection level $U_p = 1,5$ kV Nominal discharge current $I_n = 2,5$ kA Max discharge current $I_{max} = 8$ kA
Total energy dissipation	1110 Joules
Response time	<1 ns
EMI/RFI filtering	Max attenuation 52 dB from 100 kHz to 100 MHz
Phone line Surge Protection	Compatible with normal or high-speed equipment - Protection = 10 000 A
Connectors for line protection	RJ45 (compatible with RJ45 & RJ11 cords) – phone cords not supplied
User interface	Active protection indicator, power on indicator
Installation	Require earth connection
Environment	For indoor, dry environment only
Color	Charcoal grey (RAL 7016) + Aluminium (RAL 9006)
Size (W x D x H*) / Weight	70 x 105 x 67mm / 0,194 kg
Warranty	2 year + warranty for connected equipment up to 12 000 Euros (applicable in EU countries and Norway only)
Technical standards	CE Mark, Safety : IEC 60 950, NFC 61-601, NFC 61-303 Surge Protective Device standard : IEC 61 643-1 CEM : EN 55082-2, EN55022 class B, EN 61000-4-4 level 4, IEC 61000-4-5 level X=10kV

Typical applications
<ul style="list-style-type: none"> <li>- TV/Video : television, VCR, DVD player</li> <li>- Computers : PC/Mac + peripherals</li> <li>- High-speed access equipment : xDSL equipment (DSL modem , DSL router, ....), cable modem</li> <li>- Office equipment : phone, fax machine, answering machine, photocopier, projector, printer</li> <li>- Fans, aquarium</li> <li>- Household appliances : Micro-wave, washing machine, tumble dryer, coffee machine, electric cooker, fridge (category A)</li> </ul>

Key selling points
3 Double protection : Protection of the power line by suppression of surges, spikes and line noise created by weather conditions or industrial environment + Tel/Modem/Fax/Internet line protection
3 High-performance protection : 30 000 A surge protection systems, compatible with standards for Surge Protective Device IEC 61 643-1
3 EMI/RFI filtering
3 Active protection indicator and power on indicator
3 Thermal protection
3 Safety shutters for children protection
3 Includes "Warranty for connected equipment up to 12 000 Euros" (for EU countries + Norway)

Conversion table	
New product	Phased-out product
Protection Box 1 Tel@ DIN	Pulsar CL1 Tel DIN

\* W x D x H\* = Width x Depth x Height

# Reference data

## Protection Box 5 DIN

MGE UPS SYSTEMS



Product	MGE Ref	Short description
Protection Box 5 DIN	66712	High performance surge-protection for computers, office equipment, household appliances. 5 space-wide outlets (PLC compatible), wall-mounting system, cable ties and cable markers, compatible with standards for lightning protection, warranty for connected equipment up to 25 000 Euros

Packaging	Size (W x D x H*, mm)	Weight (kg)	Number of Units / Packaging	Bar Code
Individual Pack	180 x 330 x 76	0,755	1 product / pack	3553340667121
Transport Carton	350 x 390 x 188	4	5 packs / carton	
Pallet	1210 x 1000 x 1120	215,9	180 packs / pallet (=36 transport cartons per pallet)	

Packaging content
1 retail pack with 1 5-outlet surge suppressor + cable ties + cable markers supplied + 9-language User manual + Warranty for connected equipment up to 25 000 Euros

Technical Specifications	
Electrical specifications	220-250V, 10 A, 50-60 Hz
Power rating	2500 W
Surge protection	30 000 A (3 x MOV 10 000 A)
Performances tested according to IEC 61 643-1 standard for Surge Protective Device on an 8/20 $\mu$ s waveform	For a surge of $U_{oc}$ = 6,6 kV Protection level $U_p$ = 1,5 kV Nominal discharge current $I_n$ = 2,5 kA Max discharge current $I_{max}$ = 8 kA
Total energy dissipation	1110 Joules
Response time	<1 ns
User interface	Active protection indicator, power on indicator
Installation	Require earth connection
Environment	For indoor, dry environment only
Colour	Charcoal grey (RAL 7016)
Size (W x D x H*) / Weight	65 x 250 x 12 mm / 0,59 kg
Warranty	2 year + warranty for connected equipment up to 25 000 Euros (applicable in EU countries and Norway only)
Technical standards	CE Mark, Safety : IEC 60 950, NFC 61-601, NFC 61-303 Surge Protective Device standard : IEC 61 643-1 CEM : EN 55082-2, EN55022 class B, EN 61000-4-4 level 4, IEC 61000-4-5 level 4=10kV

Typical applications
<ul style="list-style-type: none"> <li>- Household appliances : Micro-wave, washing machine, tumble dryer, coffee machine, electric cooker, fridge (category A)</li> <li>- TV/Video/Audio : Television, VCR, DVD player, hi-fi equipment, amplifiers (instruments)</li> <li>- Computers : PC/Mac + peripherals</li> <li>- Office equipment : photocopier, projector, printer</li> <li>- Game hardware</li> <li>- Fans, aquarium</li> </ul>

Key selling points
3 Protection of the power line by suppression of surges, spikes and line noise created by weather conditions or industrial environment
3 High-performance protection : 30 000 A surge protection systems, compatible with standards for Surge Protective Device IEC 61 643-1
3 5 space-wide outlets compatible with transformer blocks, PLC compatible
3 Cable ties and cable markers, wall-mounting system, integrates in home or office environment thanks to its design and color
3 Easy to use : 1 ON/OFF switch, 2 indicators for ON/OFF status and active protection
3 Thermal protection
3 Safety shutters for children protection
3 Includes "Warranty for connected equipment up to 25 000 Euros" (for EU countries + Norway)

Conversion table	
New product	Phased-out product
Protection Box 5 DIN	Pulsar CL5 DIN

\* W x D x H\* = Width x Depth x Height

# Reference data

## Protection Box 5 Tel@ DIN

MGE UPS SYSTEMS



Product	MGE Ref	Short description
Protection Box 5 Tel@ DIN	66713	High performance surge-protection for computers, office equipment, phone/Fax/Modem/Internet equipment. Replaceable lightning protection module, 5 space-wide outlets (including 1 PLC compatible), wall-mounting system, compatible with standards for lightning protection, cable ties and cable markers supplied, warranty for connected equipment up to 25 000 Euros

Packaging	Size (W x D x H*, mm)	Weight (kg)	Number of Units / Packaging	Bar Code
Individual Pack	180 x 330 x 76	0,975	1 product / pack	3553340667138
Transport Carton	350 x 390 x 188	5	5 packs / carton	
Pallet	1210 x 1000 x 1120	255,5	180 packs / pallet (=36 transport cartons per pallet)	

Packaging content
1 retail pack with 1 5-outlet surge suppressor + 1,8 m detachable power cord + 1 replaceable lightning protection module + 1 phone line cord RJ11/RJ11, cable ties and cable markers supplied, 9-language User manual + Warranty for connected equipment up to 25 000 Euros

Technical Specifications	
Electrical specifications	220-250V, 10 A, 50-60 Hz
Power rating	2500 W
Surge protection	30 000 A (3 x MOV 10 000 A)
Performances tested according to IEC 61 643-1 standard for Surge Protective Device on an 8/20 $\mu$ s waveform	For a surge of $U_{oc} = 6,6$ kV Protection level $U_p = 1,5$ kV Nominal discharge current $I_n = 2,5$ kA Max discharge current $I_{max} = 8$ kA
Total energy dissipation	1110 Joules
Response time	<1 ns
EMI/RFI filtering	Max attenuation 52 dB from 100 kHz to 100 MHz
Phone line Surge Protection	Compatible with normal or high-speed equipment - Protection = 10 000 A
Connectors for line protection	RJ45 (compatible with RJ45 & RJ11 cords) – phone cords RJ11 supplied
User interface	Active protection indicator, power on indicator
Power cable	1,8 m detachable power cord USE/DIN-IEC320
Installation	Require earth connection
Environment	For indoor, dry environment only
Colour	Charcoal grey (RAL 7016) + Aluminium (RAL 9006)
Size (W x D x H*) / Weight	65 x 250 x 12 mm / 0,765 kg
Warranty	2 year + warranty for connected equipment up to 25 000 Euros (applicable in EU countries and Norway only)
Technical standards	CE Mark, Safety : IEC 60 950 Surge Protective Device : IEC 61 643-1, NFC 61-740 (95), IEC 61 643-21 (Tel line protection) EMC : EN 55082-2, EN55022 class B, EN 61000-4-4 level 4, IEC 61000-4-5 level X=10kV

Typical applications
- TV/Video/Audio : Television, VCR, DVD player, hi-fi equipment, amplifiers (instrument)
- Computers : PC/Mac with Fax/modem/Internet + peripherals
- Office equipment : phone, fax machine, answering machine, photocopier, projector, printer
- Game hardware

Key selling points
3 Double protection : Protection of the power line by suppression of surges, spikes and line noise created by weather conditions or industrial environment + Tel/Modem/Fax/Internet line protection
3 High-performance protection : 30 000 A surge protection systems, compatible with standards for Surge Protective Device IEC 61 643-1
3 Replaceable lightning protection module (free replacement in case of breakage, upgrading possible)
3 5 space-wide outlets compatible with transformer blocks (including 1 PLC compatible)
3 Cable ties and cable markers, integrated spare fuse, wall-mounting system, integrates in home/office environment thanks to its design and color
3 Easy to use : 1 ON/OFF switch, 2 indicators for ON/OFF status and active protection
3 Can be connected to any UPS thanks to its detachable cord : increase the number of outlets available at the back of the UPS
3 EMI/RFI filtering, thermal protection, safety shutters for children protection
3 Includes "Warranty for connected equipment up to 25 000 Euros" (for EU countries + Norway)

Conversion table	
New product	Phased-out product
Protection Box 5 Tel@ DIN	Pulsar CL5 Tel DIN

\* W x D x H\* = Width x Depth x Height

# Reference data

## Protection Box 5 Tel@+TV DIN

MGE UPS SYSTEMS



Product	MGE Ref	Short description
Protection Box 5 Tel@+TV DIN	66936	High performance surge-protection for computers, video/Hi-Fi equipment, phone/Fax/Modem/Internet. Audio/Video protection module, replaceable lightning protection module, 5 space-wide outlets (including 1 PLC compatible), wall-mounting system, compatible with standards for lightning protection, cable ties and cable markers supplied, warranty for connected equipment up to 25 000 Euros (for EU countries and Norway)

Packaging	Size (W x D x H*, mm)	Weight (kg)	Number of Units / Packaging	Bar Code
Individual Pack	180 x 330 x 76	1,095	1 product / pack	3553340669361
Transport Carton	350 x 390 x 188	6	6 packs / carton	
Pallet	1210 x 1000 x 1120	277,1	144 packs / pallet (=24 transport cartons per pallet)	

Packaging content
1 retail pack with 1 5-outlet surge suppressor + 1,8 m detachable power cord + 1 replaceable lightning protection module + Audio/Video protection module + 1 phone line cord RJ11/RJ11 + cable ties + cable markers supplied + 9-language User manual + Warranty for connected equipment up to 25 000 Euros

Technical Specifications	
Electrical specifications	220-250V, 10 A, 50-60 Hz
Power rating	2500 W
Surge protection	30 000 A (3 x MOV 10 000 A)
Performances tested according to IEC 61 643-1 standard for Surge Protective Device on an 8/20 $\mu$ s waveform	For a surge of $U_{oc} = 6,6$ kV Protection level $U_p = 1,5$ kV Nominal discharge current $I_n = 2,5$ kA Max discharge current $I_{max} = 8$ kA
Total energy dissipation	1110 Joules
Response time	<1 ns
EMI/RFI filtering	Max attenuation 52 dB from 100 kHz to 100 MHz
Phone line Surge Protection	Compatible with normal or high-speed equipment - Protection = 10 000 A
Connectors for line protection	RJ45 (compatible with RJ45 & RJ11 cords) – phone cords RJ11 supplied
Audio/Video line protection	10 000 A
TV/Audio protection module	Compatible with Coax TV (9.52 mm) + Satellite (F-Type)
User interface	Active protection indicator, power on indicator
Power cable	1,8 m detachable power cord USE/DIN-IEC320
Installation / Environment	Require earth connection / For indoor, dry environment only
Colour	Charcoal grey (RAL 7016) + Aluminium (RAL 9006)
Size (W x D x H*) / Weight	65 x 250 x 12 mm / 0,82 kg
Warranty	2 year + warranty for connected equipment up to 25 000 Euros (applicable in EU countries and Norway only)
Technical standards	CE Mark, Safety : IEC 60 950 Surge Protective Device : IEC 61 643-1, NFC 61-740 (95), IEC 61 643-21 (Tel line protection) EMC : EN 55082-2, EN55022 class B, EN 61000-4-4 level 4, IEC 61000-4-5 level X=10kV

Typical applications
- TV/Video/Audio : Home cinema, CRT TV, LCD, Plasma, VCR, DVD player, projector, hi-fi equipment, amplifiers
- Computers : PC/Mac with Fax/modem/Internet + peripherals
- Office equipment : phone, fax machine, answering machine, photocopier, projector, printer
- Game hardware, fans, aquarium

Key selling points
3 Protection of the power line by suppression of surges, spikes and line noise created by weather conditions or industrial environment + Tel/Modem/Fax/Internet line protection + coax cable protection : suppress perturbations on Audio/Video antenna line
3 High-performance protection : 30 000 A surge protection systems, compatible with standards for Surge Protective Device IEC 61 643-1
3 Replaceable lightning protection module (free replacement in case of breakage, upgrading possible), 5 space-wide outlets compatible with transformer blocks (including 1 PLC compatible)
3 Cable ties and cable markers, integrated spare fuse, wall-mounting system, integrates in home/office environment thanks to its design and color
3 Easy to use : 1 ON/OFF switch, 2 indicators for ON/OFF status and active protection
3 Can be connected to any UPS thanks to its detachable cord : increase the number of outlets available at the back of the UPS
3 EMI/RFI filtering, thermal protection, safety shutters for children protection
3 Includes "Warranty for connected equipment up to 25 000 Euros" (for EU countries + Norway)

Conversion table	
New product	Phased-out product
Protection Box 5 Tel@ + TV DIN	Pulsar CL5 TV DIN

\* W x D x H\* = Width x Depth x Height

# Reference data

## Protection Box 8 Tel@+TV DIN

MGE UPS SYSTEMS



Product	MGE Ref	Short description
Protection Box 8 Tel@+TV DIN	66937	High performance surge-protection for computers, video/Hi-Fi equipment, phone/Fax/Modem/Internet. Audio/Video protection module, replaceable lightning protection module, 8 space-wide outlets (including 1 PLC compatible), wall-mounting system, compatible with standards for lightning protection, cable ties and cable markers supplied, warranty for connected equipment up to 50 000 Euros (for EU countries and Norway)

Packaging	Size (W x D x H*, mm)	Weight (kg)	Number of Units / Packaging	Bar Code
Individual Pack	180 x 430 x 76	1,235	1 product / pack	3553340669378
Transport Carton	440 x 390 x 188	7,5	5 packs / carton	
Pallet	1210 x 1000 x 1080	265,25	150 packs / pallet (=30 transport cartons per pallet)	

Packaging content
1 retail pack with 1 8-outlet surge suppressor + 1,8 m detachable power cord + Audio/Video protection module + 1 replaceable lightning protection module + 1 phone line cord RJ11/RJ11 + cable ties + cable markers + 9-language User manual + Warranty for connected equipment up to 50 000 Euros

Technical Specifications	
Electrical specifications	220-250V, 10 A, 50-60 Hz
Power rating	2500 W
Surge protection	30 000 A (3 x MOV 10 000 A)
Performances tested according to IEC 61 643-1 standard for Surge Protective Device on an 8/20 $\mu$ s waveform	For a surge of $U_{oc} = 6,6$ kV Protection level $U_p = 1,5$ kV Nominal discharge current $I_n = 2,5$ kA Max discharge current $I_{max} = 8$ kA
Total energy dissipation	1110 Joules
Response time	<1 ns
EMI/RFI filtering	Max attenuation 52 dB from 100 kHz to 100 MHz
Phone line Surge Protection	Compatible with normal or high-speed equipment - Protection = 10 000 A
Connectors for line protection	RJ45 (compatible with RJ45 & RJ11 cords) – phone cords RJ11 supplied
Audio/Video line protection	10 000 A
TV/Audio protection module	Compatible with Coax TV (9.52 mm) + Satellite (F-Type)
User interface	Active protection indicator, power on indicator
Power cable	1,8 m detachable power cord USE/DIN-IEC320
Installation/Environment	Require earth connection / For indoor, dry environment only
Colour	Charcoal grey (RAL 7016) + Aluminium (RAL 9006)
Size (W x D x H*) / Weight	65 x 315 x 15 mm / 0,773 kg
Warranty	2 year + warranty for connected equipment up to 50 000 Euros (applicable in EU countries and Norway only)
Technical standards	CE Mark, Safety : IEC 60 950 Surge Protective Device : IEC 61 643-1, NFC 61-740 (95), IEC 61 643-21 (tel line protection) EMC : EN 55082-2, EN55022 class B, EN 61000-4-4 level 4, IEC 61000-4-5 level X=10kV

Typical applications
- TV/Video/Audio : Home cinema, CRT TV, LCD, Plasma, VCR, DVD player, projector, Hi-Fi equipment, amplifiers
- Computers : PC/Mac with Fax/modem/Internet + peripherals
- Office equipment : phone, fax machine, answering machine, photocopier, projector, printer
- Game hardware, fans, aquarium

Key selling points
3 Protection of the power line by suppression of surges, spikes and line noise created by weather conditions or industrial environment + Tel/Modem/Fax/Internet line protection + coax cable protection : suppress perturbations on Audio/Video antenna line
3 High-performance protection : 30 000 A surge protection systems, compatible with standards for Surge Protective Device IEC 61 643-1
3 Replaceable lightning protection module (free replacement in case of breakage, upgrading possible), 8 space-wide outlets compatible with transformer blocks (including 1 PLC compatible)
3 Can be connected to any UPS thanks to its detachable cord : increase the number of outlets available at the back of the UPS
3 Cable ties and cable markers, integrated spare fuse, wall-mounting system, integrates in home/office environment thanks to its design and color
3 Easy to use : 1 ON/OFF switch, 2 indicators for ON/OFF status and active protection
3 EMI/RFI filtering, thermal protection, safety shutters for children protection
3 Includes "Warranty for connected equipment up to 50 000 Euros" (for EU countries + Norway)

Conversion table	
New product	Phased-out product
Protection Box 8 Tel@+TV DIN	Pulsar CL8 TelTV DIN

\* W x D x H\* = Width w Depth x Height