

PRECAUTION & IMPORTANT NOTICE ▲

To ensure proper operation, read this manual thoroughly before using this product. After reading, be sure to keep it where it can be seen by all those who use the product.

On safety :

- Before operating the system, carefully check the specifications of your appliance. Be sure that the operating voltage of your appliance is identical with your local mains.
- The power supply is for indoor use only! Keep it in dry environment.
- Do not use the power supply if there are signs of any damage in housing, plug or cord.
- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been shutdown.
- Unplug the system from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord by grasping the plug. Never pull the cord itself.
- Should any liquid or solid object fall into the system, unplug the system's power cord and have the system checked by qualified personnel before operating it any further.
- Do not open the device or make unauthorized modifications to the circuit inside.
- Repair works must only be carried out by qualified servicing personnel.

Installation :

Do place the power cable properly so it will not be steeped in or tripped over. Do not place the AC power supply in a location where it is:

- Subject to extreme high or low ambient temperature
- Subject to direct sunlight or near a heat source such as oven, stove etc.
- Subject to mechanical vibration or shock
- Subject to excessive amount of dust

Operation :

- Make sure the current and voltage of the equipment matches that of the outlet.
- For safety, if the output current is too high, the unit will automatically shut down.
- To prevent damage, not to drop or it may cause a mechanical shock to the unit.
- After using, disconnect the unit from the wall outlet and the equipment.
- Disconnect the unit from the AC outlet by pulling on the plug. Do not pull on the cord.
- To avoid short-circuiting, do not allow the output screw terminals of the unit or input connector plug to touch any metal object.

Moisture :

- If the device is moved from a cold place to a warm room, condensation may occur inside. To avoid damage please allow the device to reach room temperature before using it.

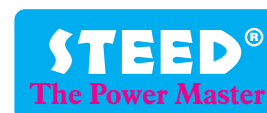
Cleaning :

- Do remove any power sources from the unit before attempting any cleaning or maintenance checking for preventing from being electrical shocked.
- Clean the unit with a soft, dry cloth. If the unit is very dirty, wipe it off with a soft cloth lightly moistened with a mild detergent solution, and then wipe with a soft dry cloth.
- If you use any chemical cleaner, observe the instructions provided with the product.
- If the cabinet of the unit is splashed with any type of solvent such as insecticide, or remains in contact for a long time with cable rubber or vinyl, the finish of the cabinet may be damaged.

WARRANTY

STEED MAGNET PRODUCTS ENTERPRISE CO., LTD. warrant this product to be free from defects in material and workmanship for a period of 90 days from the date of purchase from our authorized dealers. Should the product require service during this period, all labor and parts used to effect repairs will be supplied free of charge. **STEED** reserve the right to determine whether damage has been occasioned by accident, misuse, or improper installation whereby the warranty would be void.

In the event of a defect occurring during warranty period, the original purchaser may return the defect unit along with suitable proof of purchase date (*i.e. receipt, docket, credit card slip etc.*) and a full description of the defect to the dealer you purchased. All freight charges incurred for transportation by the dealer or **STEED** are the purchaser's responsibility.



Instruction Manual

MS-DC Series (Desktop Type)

Multiple Output Security CCTV Power Supply



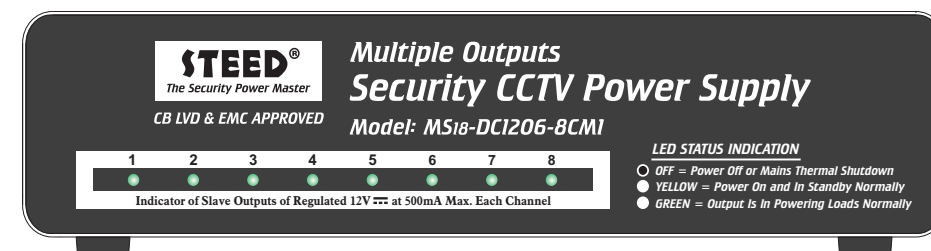
All Units Were Tested Under LVD IEC/EN 60950-1, PSE J60950, EMC EMI EN55022 (EN61000-3-2,3) & EMS EN55024 (EN61000-4-2,3,4,5,6,8,11) Standards



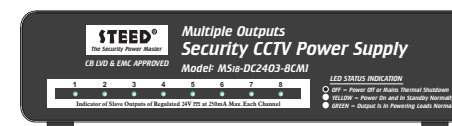
Front View
Model MS18-DC1206-8CMI



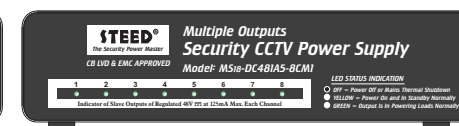
Rear View
Model MS18-DC1206-8CMI



Front View - MS18-DC1206-8CMI
12V DC 6A 84W 8 Channel at 500mA Max. Each



Front View - MS18-DC2403-8CMI



Front View - MS18-DC481A5-8CMI



Rear View - MS18-DC2403-8CMI
24V DC 3A 84W 8 Channel at 250mA Max. Each



Rear View - MS18-DC481A5-8CMI
48V DC 1.5A 84W 8 Channel at 125mA Max. Each

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• Steed reserves the right to modify products without notice.

Manufactured By:

Steed Magnet Products Ent. Co., Ltd.
in Taiwan, R.O.C.

For Distributing By:
Prime-co Pte Ltd.
in Singapore



Is Really Good, Steed Products!

File No. MNL-MS-DC-Prime
Issue No. Revision Ori 0814

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STEED® MS-DC Series (Desktop Type Version)

Multiple Output Security CCTV Power Supply

Full Series Covering:
12V Model: For 8 Ch. 12V@0.5A Each & 1 Master 13.8V@6A total 84W
24V Model: For 8 Ch. 24V@0.25A Each & 1 Master 27.6V@3A total 84W
48V Model: For 8 Ch. 48V@0.125A Each & 1 Master 55.2V@1.5A total 84W

USE

The **STEED MS-DC** series are specifically designed for converting the AC mains into low DC Voltage with multiple outputs for powering Security Surveillance Cameras and any other security devices.
(Note - This series units are NOT waterproofed. So, to be used indoor only!)

It is designed by the update switching mode technology for accepting wide of universal input voltage, high efficiency for power saving, smaller dimensions and light for freight savings!

It is passed strict tests, evaluations and inspections and has been gained World-Wide of CB, LVD, EMC & PSE approvals as a Top quality power supply for using with security etc. equipments where reliable and high quality power supply are required !

It provided regulated DC power up to total 84W for providing:

- **8 slave** channel outputs for CCTV cameras at limited smaller currents with full protections against overload and or short circuits individually **without** affecting each other, or caused **full system** shutdown! It will be return to service automatically once abnormal situations are removed !
- **1 master** output for you able to use total of unit's power for higher power required device as an useful Steed's innovative design ! (Please refer to table 1 & 2 for detail).

It provided with STEED innovative design of "**Bare**" wire, tool "**Free**" **Fasten** Connectors, for quick installations & services for time and wage **savings**. It also **saved you considerable** in the parts costs of mounting screws and terminal lugs etc. that complicated traditional connectors required !

FEATURES

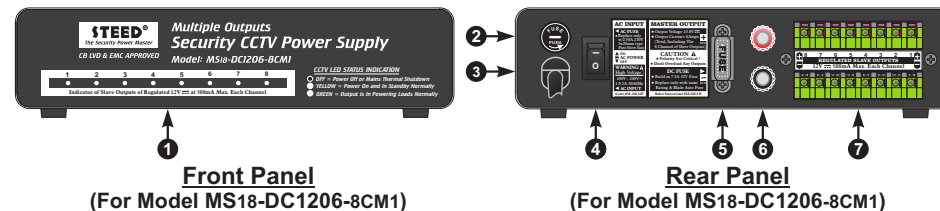
- World-Wide **CB, LVD, EMC & PSE Approved** all models, TOP Quality in every respects !!
- Update Green Current Switching Mode Technology provides of:
 - Accepts wide of universal input voltage from 100V to 240V AC 50/60Hz
 - Very low standby (**No Load**) power consumption (**saving you considerable power-bills !**)
 - Very high power factor (PF) and efficiency provides again, much lower power consumption in **Loading** of powering CCTV and all security equipments **forever**, as it to be kept on line forever, once it is installed ! (so, **saving you much of power-bills for NOT burning your pocket forever !**)
 - Very light in unit's weight (**saving you considerable charges in freights of collecting it !**)
- Very low ripple noise enhancing your system for a clear video with minimizing snowing noises !
- Built-in with Varistor for minimizing risks of lightning strike !
- Built-in with NTC thermistor for limiting the input inrush current !
- Built-in with heat sensitive thermistors for detecting and protecting from being overheated !
- Individual PTC protection against output overload or short circuits **without** affecting each other !
- Individual monitoring output status with varied color LED indicator each channel !
- Normal operation will be resumed automatically once abnormality are removed respectively each !
- Built with Steed innovative design of **Bare** wire, tool **Free Fasten** connectors, for much **savings** in time & wages of installations & services and the **considerable** parts costs of mounting screws and terminal lugs etc. that complicated traditional connectors are required as market units used !
- Steed usually high quality and compact design with very good workmanship in all respects !

MAINTAINING AND FUSE REPLACING

WARNING ⚠ To avoid risks of electric shock, always disconnect the power supply before replacing fuse. All devices connected to the supply will be then turned off when the supply is disconnected.

1. Disconnect the power supply.
2. Locate the fuse that must be replaced on the rear panel of the power supply.
3. Using a flathead screw driver to remove the cap of the fuse holder.
4. Remove the damaged fuse, and replace with a same type and rating fuse as marked.
5. Reassembly the cap of the fuse holder and ensure that it is closed in place correctly.
6. Reconnect the power supply.

FRONT PANEL AND REAR PANEL CONFIGURATIONS



- 1 LED Status Indicator:**
 - OFF: Power Off or Mains Thermal Shutdown
 - YELLOW: Power On and in Standby Normally
 - GREEN: Output Is In Powering Loads Normally
- 2 AC Fuse:** Glass Fast Blow Type 5x 20mm
- 3 Cable:** Safety Approved Double Insulation Cable VCTF 0.75mm² x 3C 7A 1.8 m(6ft.)
- 4 Power Switch:** Master Power On/Off Switch
- 5 DC Fuse:** Auto Mini Blade Type for protecting the Master output from being short circuits, overloaded or any abnormal over currents
- 6 Master DC Output Binding Post for Long Distance & High Current Devices:**
 It provide 13.8Vdc/6A (12V Model); 27.6Vdc/3A (24V Model) and 55.2Vdc/1.5A (48V Model) of unit's maximum power for powering the equipments which are in needing a power that the power supply could supply. Also, for the devices which are located far from this power supply.
- 7 Steed Innovative Design Bare Wire Tool Free Fasten Connectors For Slave Outputs:**
 1) Push Knob Backward → 2) While, Insert 10mm Stripped Wire In → 3) Release Knob to Lock → 4) Push Knob Backward and Pulling Wire Out For Disconnection without the need of a tool !!

Table 1) AVAILABLE SERIES and SPECIFICATIONS:

STEED MS-DC Series Model No.	Input Rating		Master Rated O/P V (VDC)	M+S Total O/P C (Amp)	Channel		Slave Rated O/P V (VDC)	Slave Rated O/P C (Amp)	Overall Dimension			N.W. per pc (ref.) (Kgs)	Package/Ctn (Ref.)		
	ACV +/-10%	Freq. (Hz)			M-aster	S-slave			WD. (mm)	HT. (mm)	LG. (mm)		PCS	KGS	CBM
MS18-DC1206-8CM1	100-240V	50/60	13.8V	6A	1	8	12	0.5	220	52	170	0.935	16	20.5	0.08
MS18-DC2403-8CM1	100-240V	50/60	27.6V	3A	1	8	24	0.25	220	52	170	0.935	16	20.5	0.08
MS18-DC481A5-8CM1	100-240V	50/60	55.2V	1.5A	1	8	48	0.125	220	52	170	0.935	16	20.5	0.08

- Contact Steed factory for other voltage models.
- Specifications are subject to change without notice. Contact dealer or Steed factory for detail on request

Table 2) COMMON SPECIFICATIONS

Common Specifications	12V Models	24V Models	48V Models
Input In-Rush Current	Cold Star <7.5A/100Vac / <15A/240Vac		
Total Output Power	84W		
AC Fuse Rating Glass Fast Blow Type 5x20mm	2.5A / 250V		
DC Fuse Rating Auto Mini Blade Type	7.5A / 32V Brown Color	5A / 32V Orange Color	3A / 58V Violet Color
Overload Protection	Constant Current limiting, Short Circuit Shutdown, Auto Recovery		
Power Factor (Typ.)	PF > 0.99 / 100Vac, PF > 0.95 / 240Vac		
Efficiency (Typ.)	> 86% at Max. Load		
Ripple & Noise (Max.)	100mVp-p		
Load Regulation	< 1% from 10% to maximum Load		
Working Temperature	32°F to 104°F (0°C to 40°C)		
STEED AC Plug Type Code	A=Japan/Taiwan, E=Europe Schuko, F=N. America, G=Aust./N.Z., H=U.K. British, K=Italy		