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Project 1902822

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REPORT

on

COMPONENT - POWER SUPPLIES, INFORMATION TECHNOLOGY EQUIPMENT
INCLUDING ELECTRICAL BUSINESS EQUIPMENT

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DESCRIPTION

PRODUCT COVERED:

* Component - Switching Power Supply, Information Technology Equipment, Including Electrical Business Equipment, Model Series MP4-XXX-XXX-XXX-XXX-XXX-XX-XXX, MP6-XXX-XXX-XXX-XXX-XXX-XX-XXX and MP8-XXX-XXX-XXX-XXX-XXX-XXX-XX-XXX, where X is any alphanumeric character or blank, also Models 73-580-0001i, 73-580-0001, 73-560-0001, 73-540-0001 and **MP6-3Q-1E-4LL-00-763**.

ELECTRICAL RATING:

Model	Input			Output dc	
	V	A	Hz	V	W
MP4	100-240/200-240	7	50/60/400	1.5-60	400/600
And 73-540-0001	100-240/200-240	6.6	50/60/400	380	500/750

MP4 has up to five output modules, maximum three outputs each. Output voltages set at Factory and marked adjacent to each connector.

MP4 was evaluated for Input 100-240 V Maximum 400 W and Input 200-240 V, maximum 600 W continuous output in a 50°C ambient. Maximum 200 W continuous output in a 70°C ambient evaluated with 25.1 cfm forced air-cooling. Airflow is reversible, up to 40°C at 100% load. Total loading of dual output modules not to exceed 144 W and total loading of triple output modules not to exceed 36 W.

73-540-0001, is a sub assembly of MP4 Series consisting of the PFC, fan and enclosure only.

Model	Input			Output dc	
	V	A	Hz	V	W
MP6	100-240/200-240	10	50/60/400	1.5-60	600/800
and 73-560-0001	100-240/200-240	9.7	50/60/400	380	750/1000
*MP6-3Q-1E-4LL-00-763	100-240/200-240	10	50/60/400	5-24	600/800

MP6 has up to five output modules, maximum three outputs each. Output voltages set at Factory and marked adjacent to each connector.

MP6 was evaluated for Input 100-240 V Maximum 600 W and Input 200-240 V, maximum 800 W continuous output in a 50°C ambient. Maximum 300 W continuous output in a 70°C ambient evaluated with 25.1 cfm forced air-cooling. Airflow is reversible, up to 40°C at 100% load. Total loading of dual output modules not to exceed 144 W and total loading of triple output modules not to exceed 36 W.

73-560-0001 is a subassembly of MP6 series consisting of the PFC, Fan and enclosure only.

*Difference between MP6 and **MP6-3Q-1E-4LL-00-763**:

*MP6 and **MP6-3Q-1E-4LL-00-763** is the same except input and output wire adding to model **MP6-3Q-1E-4LL-00-763** and revised output voltage.

Model Series	Input			Output dc	
	V	A	Hz	V	W
MP8	100-240/200- 240	13	50/60	1.5- 60	800/1000
and 73-580- 0001i	100-240/200- 240	20A/12A	50/60	380	1215.8/1515.8
*or 73-580- 0001	100-240/200- 240	13.8	50/60	380	1000/1250

MP8 has up to six output modules, maximum three outputs each. Output voltages set at Factory and marked adjacent to each connector.

MP8 was evaluated for Input 100-240 V Maximum 800 W and Input 200-240 V, maximum 1000 W continuous output in a 50°C ambient. Maximum 400 W continuous output in a 70°C ambient evaluated with 25.1 cfm forced air-cooling. Airflow is reversible, up to 40°C at 100% load. Total loading of dual output modules not to exceed 144 W and total loading of triple output modules not to exceed 36 W.

*73-580-0001i and 73-580-0001 are the **subassemblies** of MP8 series consisting of the PFC, Fan and enclosure only.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE USE):

Use - For use only in (or with) complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Special Considerations - The following items are considerations that were used when evaluating this product.

* USR/CNR indicates investigation to the U. S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, CAN/CSA C22.2 No. 60950-1-07, Second Edition, **Amendment 1 dated 2011-12-19**, and UL 60950-1, Second Edition, **Amendment 1 dated 2011-12-19**. Additional considerations were made to the suitability of this equipment for use in UL3101-1 applications.

The equipment is for building in, Class I (earthed), intended for use on a TN power system.

Conditions of Acceptability - When installed in the end-use equipment, consideration shall be given to the following:

1. This component has been judged on the basis of the required spacings in the Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, UL 60950-1, Second **Edition, Amendment 1 dated 2011-12-19** and CAN/CSA C22.2 No. 60950-1-07, **Second Edition, Amendment 1, dated 2011-12-19**, Sub-clause 2.10 and Annex G (altitude requirement), which would cover the component itself if submitted for Listing.
2. A suitable electrical and fire enclosure shall be provided in the end-use.
3. The terminals and connectors have not been evaluated for field wiring.
4. These power supplies were evaluated for connection to a TN power system.
5. This power supply is considered a Class I product. The power supply shall be properly bonded to the main earthing termination in the end-use.
6. Bonding terminals provided on this equipment have not been evaluated as protective earthing terminals.
7. These power supplies have outputs that exceed 240 VA at a potential of 2 V or more.

8. Model MP4, MP6, 73-540-0001, 73-560-0001, 73-580-0001i **or 73-580-0001**, MP8 power supply series have been evaluated for use in a 50°C ambient at full rated output, 70°C ambient at 60% rated output. A 25.1 cfm external reversible fan was utilized during testing of Models MP4, MP6, and MP8 series.
9. The outputs of these power supplies are SELV and are hazardous energy levels.
10. The Capacitance Discharge Test shall be conducted in the end-use installation with the consideration of removing or opening the primary fuse, F201 for MP8 or F401 for MP4 and MP6.
11. The Leakage Current Test should be repeated in the end-use installation. Consideration shall be given to marking the end-use product with "high leakage current-earth connection essential before connecting supply."
12. Models MP4, MP6 and MP8 have been evaluated for use in a 50°C ambient at 100% rated load; 70°C ambient at 50% rated load; 40°C at 100% rated load with reverse air flow.
13. The equipment has been evaluated for use in a Pollution Degree 2 environment.
14. Fan is optional provided. The Heating Test shall be evaluated in end-system with fan.