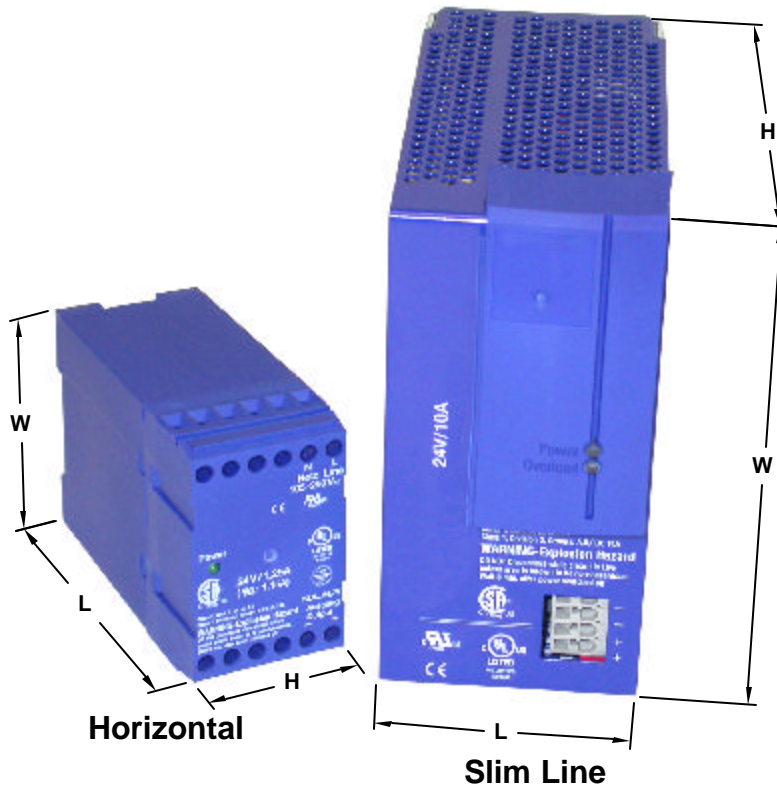




REVISIONS

DWG. NO. SPC-F004 \* Effective: 7/8/02 \* DCP No: 1398

| DCP # | REV | DESCRIPTION | DRAWN | DATE     | CHECKD | DATE     | APPRVD | DATE     |
|-------|-----|-------------|-------|----------|--------|----------|--------|----------|
| 1929  | A   | Released    | JWM   | 11/23/04 | JN     | 04/23/08 | JN     | 04/23/08 |



**Wide Range**

Compact Housing - 20A, 3ph only 3.39 inches long  
Horizontal Mounting - up to 40A, 3 phase

**Output**

24V / 1.25 to 20A - Single phase  
24V / 10, 20, and 40A - 3 phase

**Universal Input**

115 / 230 VAC  
3 X 340 / 550 VAC

**Load Sharing**

Parallel operation  
Redundancy

**High Efficiency**

Typical 90%

**Increased Operating Temperature**

100% at 140°F

**Status Indication**

Power ON indication  
Overload Status LED

**Touch Safe Power Entry**

Covered power entry  
Convenient customer input terminals

**Approvals**

UL / CSA and EN 60950  
EMC Certified

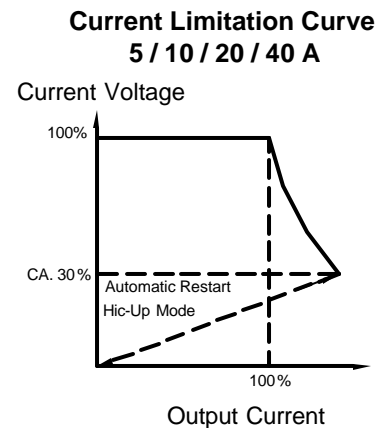
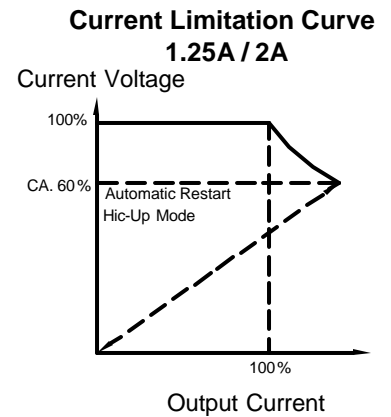
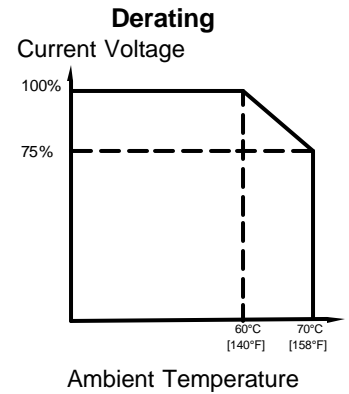
|                    | SPC Type No. | Input Volts (VAC) | Phase | Output Volts (VDC) | Output Current (Amps) | Power (Watts) | Dimensions (inches) L x W x H |
|--------------------|--------------|-------------------|-------|--------------------|-----------------------|---------------|-------------------------------|
| Slim Line          | MC13545      | 115/230           | 1     | 24                 | 1.25                  | 30            | 1.77 x 2.83 x 4.13            |
|                    | MC13548      | 115/230           | 1     | 24                 | 5                     | 120           | 2.76 x 5.20 x 5.47            |
|                    | MC13550      | 115/230           | 1     | 24                 | 10                    | 240           | 2.76 x 5.81 x 6.46            |
| Slim Line 3 Phase  | MC13551      | 3x 340-550        | 3     | 24                 | 10                    | 240           | 3.18 x 6.02 x 6.29            |
| Horizontal         | MC13546      | 115/230           | 1     | 24                 | 2.5                   | 60            | 4.25 x 4.84 x 2.56            |
|                    | MC13547      | 115/230           | 1     | 24                 | 5                     | 120           | 5.79 x 4.84 x 3.39            |
|                    | MC13549      | 115/230           | 1     | 24                 | 10                    | 240           | 8.07 x 4.84 x 3.39            |
|                    | MC13552      | 195-265           | 1     | 24                 | 20                    | 480           | 9.45 x 6.02 x 3.39            |
| Horizontal 3 Phase | MC13553      | 3x 340-550        | 3     | 24                 | 20                    | 480           | 9.45 x 6.02 x 3.39            |
|                    | MC13555      | 3x 340-550        | 3     | 24                 | 40                    | 960           | 11.50 x 7.28 x 5.12           |

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|  |               |            |                                 |                     |                 |     |
|--|---------------|------------|---------------------------------|---------------------|-----------------|-----|
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY. | DRAWN BY:     | DATE:      | DRAWING TITLE:                  |                     |                 |     |
|  | Jeff McVicker | 11/23/04   | DIN Rail Mounted Power Supplies |                     |                 |     |
|  | CHECKED BY:   | DATE:      | SIZE                            | DWG. NO.            | ELECTRONIC FILE | REV |
|  | Jason Nash    | 04/23/08   | A                               | TA-648              | TA-638.dwg      | A   |
| APPROVED BY:   | DATE:         | SCALE: NTS |                                 | U.O.M.: INCHES [mm] | SHEET: 1 OF 2   |     |
| Jason Nash   | 04/23/08      |            |                                 |                     |                 |     |

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| <b>Regulation</b>                |   |
|----------------------------------|---|
| Line regulation                  | < 0.2% with $U_{in} \pm 15\%$   |
| Load regulation                  | < 1% with 0 A -> $I_{nom}$  |
| Dynamics                         | < 2 ms with 10<-->90% $I_{nom}$<br>peaks < 2%   |
| <b>Protection and Monitoring</b> |   |
| Current Limitation               | Protection against continuous short circuit   |
| Overload protection              | Yes   |
| Non-load protection              | Yes   |
| Overvoltage protection           | Yes   |
| <b>Safety</b>                    |   |
| Output                           | VDE 0805 / EN 60950 / IEC 950 /<br>UL1950 safety voltage (SELV)<br>acc. to EN 60950           |
| Protective System                | Class I / Class II at 149002-31001/149002-21001   |
| Degree of protection             | IP 20   |
| Leakage current (1.25A / 2A)     | < 0.25 mA (47-63 Hz line frequency)   |
| Leakage current (5A / 10A)       | < 0.75 mA (47-63 Hz line frequency)   |
| Leakage current (20A / 40A)      | < 3.50 mA (47-63 Hz line frequency)   |
| <b>EMV CE - Certified</b>        |   |
| RFI suppression                  | Emission (EN 50081-1/-2)<br>EN 55011 / EN55022 class B Immunity<br>(EN 50082-1, EN 61000-6-2) |
| Static Discharge ESD             | acc. to EN 61000-6-2  |
| IEC 1000-4-2                     | 8kV contact discharge<br>15kV free air discharge  |
| Elektromagnetic fields           | acc. to EN 61000-4-3  |
| IEC 1000-4-3                     | 10V/m   |
| Burst                            | acc. to EN61000-4-4   |
| IEC 1000-4-4                     | 4kV input<br>2kV output / AC-coupled  |
| Surge                            | acc. to EN61000-4-5   |
| IEC 1000-4-5                     | 4kV asymmetric<br>4kV symmetric   |
| Form of electrical interference  | acc. to EN 61000-4-6  |
| IEC 1000-4-6                     | 10 V, 150 kHz ... 80 MHz  |
| <b>Operational Data</b>          |   |
| Temperature range                | -10°C [14°F] to +70°C [158°F] with free convection  |
| Power derating                   | 2.5% / K from +60°C [140°F] (see diagram)   |
| Storage temperature              | -25°C [-13°F] to +85°C [185°F]  |
| Static Discharge ESD             | acc. to EN 61000-6-2  |
| IEC 1000-4-2                     | 8kV contact discharge<br>15kV free air discharge  |
| <b>Installation</b>              |   |
| Installation                     | Easy access mounting bracket for rail<br>DIN EN 50022-35                                      |
| Mounting position                | Upright with input terminals on top.<br>Output terminals underneath.                          |



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SIZE DWG. NO.

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TA-648

ELECTRONIC FILE

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SCALE: NTS

U.O.M.: INCHES [mm]

SHEET: 2 OF 2