



## Desktop Switching Power Supply

Model  
SEC-1235P-M  
30 Amps



Energy Verified  
Rendement  
Énergétique Vérifié



EFFICIENCY LEVEL VI<sub>115 VAC</sub>  
EFFICIENCY LEVEL VI<sub>230 VAC</sub>

### Design Features

- Universal Input: 100 to 240 VAC, 50/60 Hz
- Power Factor Corrected
- Complies with Minimum Energy Performance Standard (MEPS) for external power supplies
- Efficiency Level 6
- Advanced switch-mode technology
- Reliable power with minimum weight and size
- Circuit innovations minimize output voltage ripple and RFI

### 3 YEAR LIMITED WARRANTY

| MODEL NO.             |                                     | SEC-1235P-M   |   |
|-----------------------|-------------------------------------|---|---|
|                       |                                     | Input: 115A   | Input: 230V   |
| INPUT VOLTAGE RANGE   |                                     | 100-240 VAC   |   |
| INPUT FREQUENCY RANGE |                                     | 50-60Hz (47-63Hz)   |   |
| INPUT                 | AC INPUT CURRENT                    | 3.87A at 120 VAC<br>4.05A at 115 VAC<br>4.80A at 100 VAC  | 1.91A at 240 VAC<br>1.99A at 230 VAC<br>2.4A at 200 VAC |
|                       | INRUSH CURRENT ON SWITCHING ON      | 30A (Cold start)  | 60A (Cold start)  |
|                       | POWER FACTOR AT FULL LOAD           | 0.99  | 0.97  |
|                       | NO LOAD POWER DRAW                  | < 0.5W  | < 0.5W  |
|                       | AVERAGE EFFICIENCY                  | > 89%   | > 92%   |
|                       | ENERGY EFFICIENCY LEVEL             | Level VI  | Level VI  |
|                       | PWM SWITCHING FREQUENCY             | 75 to 150 KHz   |   |
|                       | PFC SWITCHING FREQUENCY             | 25 to 68 KHz  |   |
|                       | OUTPUT VOLTAGE                      | 13.8V ± 0.1V  |   |
|                       | OUTPUT CURRENT: RATED               | 30A   |   |
| OUTPUT                | OUTPUT CURRENT: CURRENT LIMIT       | 36 to 37.5A   | 36.3A   |
|                       | OUTPUT POWER                        | 414W  |   |
|                       | OUTPUT RIPPLE AND NOISE             | 100 mV peak to peak at full load  |   |
|                       | OUTPUT VOLTAGE ADJUSTMENT RANGE     | 12.5 to 15.0 VDC  |   |
|                       | OUTPUT VOLTAGE TOLERANCE AT NO LOAD | ±0.1V   |   |
|                       | OUTPUT METERING                     | Provided with the following meters: <ul style="list-style-type: none"> <li>• Voltmeter : 0 to 15V; 0.5V per division</li> <li>• Ammeter: 0 to 50A; 2A per division</li> <li>• Back lighting with On/Off Switch</li> </ul> |   |
| PROTECTIONS           | OVERLOAD AND SHORT CIRCUIT          | Hiccup Mode at 120% (36A). Auto reset when fault is removed.  |   |
|                       | OUTPUT OVER VOLTAGE PROTECTION      | By PWM Controller (16.5 ± 0.5 VDC)  |   |
|                       | COOLING                             | Fan ON when the temperature of Secondary Heat Sink reaches 55°C ± 5°C. Fan switches OFF when the temperature drops to 45°C ± 5°C  |   |
|                       | OVER TEMPERATURE PROTECTION         | The unit will shut down when the temperature of the Primary Heat Sink rises to 105°C ± 5°C. Auto reset when the temperature drops to 75°C ± 5°C   |   |
| INTERNAL AC SIDE FUSE |                                     | 250V, 6.3A; Time Delay Type; 5mm x 20mm   |   |

NOTE: Specifications are subject to change without notice

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|---|--|---|
|   |  | Input: 115A      Input: 230V  |
| <b>ENVIRONMENTAL</b>  | <b>OPERATING TEMPERATURE</b>                         | -20°C to +50°C: 100% rated power<br>50°C – 60°C: Linearly de-rate from 100% power at 50°C to 80% power at 60°C  |
|   | <b>STORAGE TEMPERATURE RANGE</b>                     | -30°C to 70°C / -22°F to 158°F  |
| <b>COMPLIANCE - SAFETY</b>                                      | <b>UL SAFETY LISTED: USA</b>                         | UL 62368-1, 2014-12-1   |
|   | <b>UL SAFETY LISTED: CANADA</b>                      | CSA C22.2 No. 62368-1-14, 2014-12   |
|   | <b>EUROPEAN CE SAFETY MARKED</b>                     | <ul style="list-style-type: none"> <li>• Low Voltage Directive (LVD) 2014/35/EU</li> <li>• EN62368-1 : 2014+A11 : 2017</li> </ul>   |
|   | <b>AUSTRALIA AND NEW ZEALAND SAFETY REQUIREMENTS</b> | AS/NZS 60950-1: 2015  |
| <b>COMPLIANCE: EMC</b>  | <b>NORTH AMERICA</b>                                 | EMI: FCC Part 15(B), Class B  |
|   | <b>EUROPE (FOR CE MARK)</b>                          | EMC Directive: 2014/30/EU<br>EMI: EN55032:2012; <ul style="list-style-type: none"> <li>• EN61000-3-2: 2014</li> <li>• EN61000-3-3: 2013</li> </ul> EMS: EN55024: 2010 <ul style="list-style-type: none"> <li>• EN61000-4-2: 2009;</li> <li>• EN61000-4-3:2006+A1:2008+A2:2010</li> <li>• EN61000-4-4:2012</li> <li>• EN61000-4-5:2014</li> <li>• EN61000-4-6:2014</li> <li>• EN61000-4-8:2010</li> <li>• EN61000-4-11:2004</li> </ul> |
|   | <b>AUSTRALIA / NEW ZEALAND</b>                       | EMI: AS/NZS CISPR 32, Class B   |
| <b>COMPLIANCE: ROHS2</b>  | <b>FOR EUROPEAN CE MARK</b>                          | 2011/65/EU (RoHS2)  |
| <b>COMPLIANCE: ENERGY EFFICIENCY OF EXTERNAL POWER SUPPLIES</b> | <b>USA DEPARTMENT OF ENERGY (DOE)</b>                | 10CFR, Parts 429 and 430  |
|   | <b>CALIFORNIA APPLIANCE EFFICIENCY REGULATIONS</b>   | California Code of Regulations, Title 20, Division 2, Chapter 4, Article 4, Sections 1601 to 1608   |
|   | <b>INTERNATIONAL EFFICIENCY MARKING PROTOCOL</b>     | Efficiency Level: VI      Efficiency Level: VI  |
| <b>COUNTRY OF MANUFACTURE</b>                                   | <b>MADE IN</b>                                       | Taiwan  |
| <b>DIMENSIONS</b>   | <b>(W X D X H)</b>                                   | 185 x 208 x 57.8mm / 7.28 x 8.19 x 2.28 in  |
| <b>WEIGHT</b>   | <b>(KG / LB)</b>                                     | 1.66 Kg / 3.7 lb  |

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