



3 YEAR LIMITED WARRANTY

Desktop Switching Power Supply

Model SEC-1235 30 Amps

Design Features

- Advanced switch-mode technology
- Reliable power with minimum weight and size
- Circuit innovations minimize output voltage ripple and RFI
- Input voltage can be set at 100 VAC or 230 VAC
- UL listed to both USA & Canadian safety standards

NOMINAL AC INPUT VOLTAGE AC INPUT INPUT CURRENT TO LOAD INRUSH CURRENT AT NO LOAD INRUSH CURRENT AT SAME AT SAME AT SAME AND LOAD INRUSH CURRENT AT SAME AT SAME AND LOAD INRUSH CURRENT AT SAME AT SAME AT SAME AND LOAD INRUSH CURRENT AT SAME AT SAME AT SAME AND LOAD INRUSH CURRENT AT SAME AT SAME AT SAME AND LOAD INRUSH CURRENT AT SAME AT S		MODEL NO.	SEC-1235
INPUT CURRENT AT NO LOAD INRUSH CURRENT AT STARTUP OUTPUT VOLTAGE OUTPUT VOLTAGE 13.8VDC ± 0.17 OUTPUT CURRENT OUTPUT VOLTAGE 13.8VDC ± 0.17 OUTPUT CURRENT OUTPUT NOISE AND RIPPLE PEAK EFFICIENCY 85% 4/-5% Witch Mode Power Supply (SMPS) with Fixed Frequency Pulse Width Modulation (PWM) OUTPUT SIDE SWITCHING FREQUENCY 30.5 KHz SHORT CIRCUIT, OVERLOAD OVER TEMPERATURE OVER TEMPERATURE OVER TEMPERATURE OVER TEMPERATURE OVER TEMPERATURE OVER TEMPERATURE OUTPUT SIDE SWITCHING FREQUENCY OVER TEMPERATURE OVER TEMPERA	AC INPUT	NOMINAL AC INPUT VOLTAGE	
INRUSH CURRENT AT STARTUP OUTPUT CURRENT OUTPUT CURRENT OUTPUT CURRENT OUTPUT CURRENT OUTPUT CURRENT OUTPUT CURRENT OUTPUT NOISE AND RIPPLE PEAK EFFICIENCY Switch Mode Power Supply (SMPS) with Fixed Frequency Pulse Width Modulation (PWM) OUTPUT SIDE SWITCHING FREQUENCY SJO 55% ±/-5% With Mode Power Supply (SMPS) with Fixed Frequency Pulse Width Modulation (PWM) OUTPUT SIDE SWITCHING FREQUENCY OUTPUT SIDE SWIT		INPUT CURRENT	7.5 A @ 120 VAC; 3.5A @ 230VAC
DESIGN DESIGN DESIGN DESIGN DESIGN DESIGN DESIGN DESIGN DUTPUT SIDE SWITCHING FREQUENCY OUTPUT SIDE SWITCHING FREQUENCY OUTPUT SIDE SWITCHING FREQUENCY OVER VOLTAGE PROTECTIONS DVER TEMPERATURE COOLING COOLING FORCED AIR INTERNAL AC SIDE FUSE, 120VAC INPUT (BY INTERNAL JUMPER SETTING) INTERNAL AC SIDE FUSE, 230VAC INPUT (BY INTERNAL JUMPER SETTING) INTERNAL AC SIDE FUSE, 230VAC INPUT SAFETY COMPLIANCE ELECTRO MAGNETIC INTERFERENCE EMI - RADIATED & CONDUCTED AC INPUT CONNECTIONS DC OUTPUT CONNECTIONS ENVIRONMENTAL DIMENSIONS AND WEIGHT DIMENSIONS AND WEIGHT DIMENSIONS AND WEIGHT DIMENSIONS AND WEIGHT DESIGN 13.8VDC ± 0.1V Continuous: 30A; Current Limit: 35A, Auto recovery Continuous: 30A; Current Limit: 45D, Curre		INPUT CURRENT AT NO LOAD	120 mA ± 10% @120VAC
OUTPUT CURRENT OUTPUT NOISE AND RIPPLE PEAK EFFICIENCY PEAK EFFICIENCY PEAK EFFICIENCY PEAK EFFICIENCY PEAK EFFICIENCY OUTPUT SIDE SWITCHING FREQUENCY Pulse Width Mode Power Supply (SMPS) with Fixed Frequency Pulse Width Modulation (PWM) 30.5 KHz 30.5 KHz OVER VOLTAGE Regulated by PWM Controller OUTPUT SIDE SWITCHING FREQUENCY Pulse Width Modulation (PWM) 00.5 KHz OVER TEMPERATURE OVER TEMPERATURE OVER TEMPERATURE OVER TEMPERATURE FORCED AIR FORCED AIR INTERNAL AC SIDE FUSE, 120VAC INPUT (PRESET) INTERNAL AC SIDE FUSE, 120VAC INPUT (PRESET) INTERNAL AC SIDE FUSE, 210VAC INPUT (PRESET) INTERNAL AC SIDE FUSE, 210VAC INPUT (PRESET) INTERNAL AC SIDE FUSE, 210VAC INPUT (PRESET) FUSE COMPLIANCE COMPLIANCE ELECTRO MAGNETIC INTERFERENCE EMI - RADIATED & CONDUCTED AC INPUT CONNECTION AC INPUT CONNECTION AC INPUT CONNECTION AC INPUT CONNECTORS ENVIRONMENTAL OPERATING TEMPERATURE RANGE O'C / 32°F to 40°C / 104°F e on one end TEVE SOCK & 104°F e one end Teve Supply for USA (UL Standard ANSI/UL-60950-1) and for canada (CSA Standard CAN/CSA-C22.2 No. 60950-1) * "IEC 320-C13" Connector on the unit * O'Etachable Power Cord with: "IEC 320-C13" Connector on one end TEVE SOCK & Head, #10, 24 TPI, 5/16" long) ENVIRONMENTAL OPERATING TEMPERATURE RANGE O'C / 32°F to 40°C / 104°F DIMENSIONS AND WEIGHT OUTPUT CONNECTION 185 × 208 × 61 mm / 7.28 × 8.19 × 2.40 in		INRUSH CURRENT AT STARTUP	30A +/- 5A for < 5 ms
DESIGN DESIGN		OUTPUT VOLTAGE	13.8VDC ± 0.1V
OUTPUT NOISE AND RIPPLE PEAK EFFICIENCY PEAK EFFICIENCY PEAK EFFICIENCY PEAK EFFICIENCY OUTPUT SIDE SWITCHING FREQUENCY Pulse Width Model Power Supply (SMPS) with Fixed Frequency Pulse Width Modulation (PWM) 30.5 KHz 30.5 KHz OVER VOLTAGE Regulated by PWM Controller OUtput shuts down when Power Transformer winding temperature ≥ 105°C ± 5°C / 221°F ± 9°F; Auto reset on cooling down to ≤ 75°C ± 5°C / 104°F ± 9°F Temperature controlled fan. ON when Power Transformer winding temperature is ≥ 60°C ± 5°C / 140°F ± 9°F Temperature controlled fan. ON when Power Transformer winding temperature is ≥ 60°C ± 5°C / 140°F ± 9°F Temperature controlled fan. ON when Power Transformer winding temperature is ≥ 60°C ± 5°C / 140°F ± 9°F. OFF when cools down to ≤ 40°C ± 5°C / 140°F	DC OUTBUT	OUTPUT CURRENT	Continuous: 30A; Current Limit: 35A, Auto recovery
TYPE OUTPUT SIDE SWITCHING FREQUENCY Pulse Width Modulation (PWM) 30.5 KHz	DC 001F01	OUTPUT NOISE AND RIPPLE	< 150 mV Peak to Peak
PROTECTIONS OUTPUT SIDE SWITCHING FREQUENCY SHORT CIRCUIT, OVERLOAD OUTPUT SIDE SWITCHING FREQUENCY OVER VOLTAGE Regulated by PWM Controller OUTPUT SIDE SWITCHING FREQUENCY OUTPUT CONNECTIONS OUTPUT SIDE SWITCHING FREQUENCY OUTPUT SIDE SWITCHING FREQUENCY OUTPUT CONNECTION OUTPUT SIDE SWITCHING FREQUENCY OUTPUT CONNECTION OUTPUT CONNECTI		PEAK EFFICIENCY	
SHORT CIRCUIT, OVERLOAD OVER VOLTAGE Regulated by PWM Controller Output shuts down when Power Transformer winding temperature 2 105°C ± 5°C / 121°F ± 9°F; Auto reset on cooling down to ≤ 75°C / 221°F ± 9°F; Auto reset on cooling down to ≤ 75°C / 25°C / 160°F ± 9°F COOLING FORCED AIR FORCED AIR INTERNAL AC SIDE FUSE, 120VAC INPUT (PRESET) INTERNAL AC SIDE FUSE, 120VAC INPUT (RESET) INTERNAL AC SIDE FUSE, 230VAC INPUT (BY INTERNAL JUMPER SETTING) COMPLIANCE SAFETY COMPLIANCE AC INPUT CONNECTION DC OUTPUT CONNECTIONS ENVIRONMENTAL DIMENSIONS AND WEIGHT SHORT CIRCUIT, OVERLOAD OUTput shuts down when Power Transformer winding temperature 2 105°C ± 5°C / 121°F ± 9°F; Auto reset on cooling down to ≤ 75°C / 15°C / 140°F ± 9°F Temperature controlled fan. ON when Power Transformer winding temperature is ≥ 60°C ± 5°C / 140°F ± 9°F; OFF when cools down to ≤ 40°C	DESIGN	ТҮРЕ	
PROTECTIONS OVER TEMPERATURE Output shuts down when Power Transformer winding temperature ≥ 105°C ± 5°C / 221°F ± 9°F; Auto reset on cooling down to ≤ 75°C ± 5°C / 167°F ± 9°F. Auto reset on cooling down to ≤ 75°C ± 5°C / 167°F ± 9°F. Auto reset on cooling down to ≤ 75°C ± 5°C / 167°F ± 9°F. Auto reset on cooling down to ≤ 75°C ± 5°C / 167°F ± 9°F. Auto reset on cooling down to ≤ 75°C ± 5°C / 167°F ± 9°F. Auto reset on cooling down to ≤ 75°C ± 5°C / 167°F ± 9°F. Auto reset on cooling down to ≤ 75°C ± 5°C / 167°F ± 9°F. Auto reset on cooling down to ≤ 75°C ± 5°C / 160°F ± 9°F. OFF when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F. OFF when cools down to ≤ 40°C ± 5		OUTPUT SIDE SWITCHING FREQUENCY	30.5 KHz
OUTPUT CONNECTIONS OVER TEMPERATURE Output shuts down when Power Transformer winding temperature ≥ 105°C ± 5°C / 221°F ± 9°F; Auto reset on cooling down to ≤ 75°C ± 5°C / 167°F ± 9°F; Auto reset on cooling down to ≤ 75°C ± 5°C / 140°F ± 9°F; OFF when cools down to ≤ 40°C ± 5°C / 140°F ± 9°F; OFF when cools d	PROTECTIONS	SHORT CIRCUIT, OVERLOAD	Constant Current Limiting at 35A; Auto Reset
OUTPUT CONNECTIONS OVER TEMPERATURE Output shuts down when Power Transformer winding temperature ≥ 105°C ± 5°C / 221°F ± 9°F; Auto reset on cooling down to ≤ 75°C ± 5°C / 167°F ± 9°F; Auto reset on cooling down to ≤ 75°C ± 5°C / 140°F ± 9°F; OFF when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F; OFF when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F; OFF when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F; OFF when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F; OFF when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F; OFF when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F; OFF when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F when cools down to ≤ 40°C ± 100°F ± 9°F when cools down to ≤ 40°C ± 100°F ± 9°F when cools down to ≤ 40°C ± 100°F ± 9°F when cools down to ≤ 40°C ± 100°F ± 9°F when cools down to ≤ 40°C ± 100°F ± 9°F when cools down to ≤ 40°C ± 100°F ± 9°F when cools down to ≤ 40°C ± 100°F ± 9°F when cools down to ≤ 40°C ± 100°F ± 9°F when cools down to ≤ 40°C ± 100°F ± 9°F when cools down to ≤ 40°C ± 100°F ± 9°F when cools down to ≤ 40°C ± 100°F ± 9°F when cools down to ≤ 40°C ± 100°F ± 9°F when cools down to ≤ 40°C ± 100°F ± 1		OVER VOLTAGE	Regulated by PWM Controller
FORCED AIR winding temperature is ≥ 60°C ± 5°C / 140°F ± 9°F; OFF when cools down to ≤ 40°C ± 5°C / 104°F ± 9°F INTERNAL AC SIDE FUSE, 120VAC INPUT (PRESET) INTERNAL AC SIDE FUSE, 230VAC INPUT (BY INTERNAL JUMPER SETTING) SAFETY COMPLIANCE COMPLIANCE AC INPUT CONNECTION AC INPUT CONNECTIONS DC OUTPUT CONNECTORS ENVIRONMENTAL OPERATING TEMPERATURE RANGE DIMENSIONS AND WEIGHT INTERNAL AC SIDE FUSE, 230VAC INPUT S mm x 20 mm Glass Fuse; 250V, 8A, Time Delay Type; Littelfuse - "218008" 5 mm x 20 mm Glass Fuse; 250V, 4A, Time Delay Type; Littelfuse - "218004" UL safety listed as "Information Technology Equipment Powe Supply" for USA (UL Standard ANSI/UL-60950-1) and for Canada (CSA Standard CAN/CSA-C22.2 No. 60950-1) FCC Part 15(B), Class B "IEC 320-C14" Inlet Connector on the unit Detachable Power Cord with: "IEC 320-C13" Connector on one end NEMA5-15P Plug on the other end Terminal with Tubular Hole - Diameter 5mm / 0.2" and set screw (5/64" Hex Socket Head, #10, 24 TPI, 5/16" long) ENVIRONMENTAL DIMENSIONS (W X D X H) DIMENSIONS AND WEIGHT		OVER TEMPERATURE	temperature ≥ 105°C ± 5°C / 221°F ± 9°F; Auto reset on
TOUTPUT CONNECTIONS 120VAC INPUT (PRESET) INTERNAL AC SIDE FUSE, 230VAC INPUT (BY INTERNAL JUMPER SETTING) SAFETY COMPLIANCE COMPLIANCE SAFETY COMPLIANCE Littlefuse - "218004" UL safety listed as "Information Technology Equipment Powe Supply" for USA (UL Standard ANSI/UL-60950-1) and for Canada (CSA Standard CAN/CSA-C22.2 No. 60950-1) ELECTRO MAGNETIC INTERFERENCE EMI - RADIATED & CONDUCTED AC INPUT CONNECTION AC INPUT CONNECTION DC OUTPUT CONNECTION DC OUTPUT CONNECTORS DC OUTPUT CONNECTORS ENVIRONMENTAL OPERATING TEMPERATURE RANGE DIMENSIONS AND WEIGHT DIMENSIONS AND WEIGHT Littlefuse - "218008" 5 mm x 20 mm glass Fuse; 250V, 4A, Time Delay Type; Littlefuse - "218004" 5 mm x 20	COOLING	FORCED AIR	winding temperature is $\geq 60^{\circ}\text{C} \pm 5^{\circ}\text{C} / 140^{\circ}\text{F} \pm 9^{\circ}\text{F}$; OFF when
INTERNAL AC SIDE FUSE, 230VAC INPUT (BY INTERNAL JUMPER SETTING) SAFETY COMPLIANCE SAFETY COMPLIANCE ELECTRO MAGNETIC INTERFERENCE EMI – RADIATED & CONDUCTED AC INPUT CONNECTION INPUT / OUTPUT CONNECTIONS DC OUTPUT CONNECTORS DC OUTPUT CONNECTORS ENVIRONMENTAL OPERATING TEMPERATURE RANGE DIMENSIONS AND WEIGHT 5 mm x 20 mm Glass Fuse; 250V, 4A, Time Delay Type; Littlefuse - "218004" UL safety listed as "Information Technology Equipment Powe Supply" for USA (UL Standard ANSI/UL-60950-1) and for Canada (CSA Standard CAN/CSA-C22.2 No. 60950-1) FCC Part 15(B), Class B "IEC 320-C14" Inlet Connector on the unit Detachable Power Cord with: - "IEC 320-C13" Connector on one end - NEMA5-15P Plug on the other end Terminal with Tubular Hole - Diameter 5mm / 0.2" and set screw (5/64" Hex Socket Head, #10, 24 TPI, 5/16" long) OPERATING TEMPERATURE RANGE DIMENSIONS (W X D X H) 185 x 208 x 61 mm / 7.28 x 8.19 x 2.40 in	FUSE	•	
SAFETY Supply" for USA (UL Standard ANSI/UL-60950-1) and for Canada (CSA Standard CAN/CSA-C22.2 No. 60950-1) ELECTRO MAGNETIC INTERFERENCE EMI – RADIATED & CONDUCTED FCC Part 15(B), Class B "IEC 320-C14" Inlet Connector on the unit Detachable Power Cord with: "IEC 320-C13" Connector on one end NEMA5-15P Plug on the other end Terminal with Tubular Hole - Diameter 5mm / 0.2" and set screw (5/64" Hex Socket Head, #10, 24 TPI, 5/16" long) ENVIRONMENTAL DIMENSIONS AND WEIGHT SAFETY Supply" for USA (UL Standard ANSI/UL-60950-1) and for Canada (CSA Standard CAN/CSA-C22.2 No. 60950-1) "IEC 320-C14" Inlet Connector on the unit Detachable Power Cord with: "IEC 320-C13" Connector on one end NEMA5-15P Plug on the other end Terminal with Tubular Hole - Diameter 5mm / 0.2" and set screw (5/64" Hex Socket Head, #10, 24 TPI, 5/16" long) ENVIRONMENTAL DIMENSIONS (W X D X H) 185 x 208 x 61 mm / 7.28 x 8.19 x 2.40 in			
ELECTRO MAGNETIC INTERFERENCE EMI – RADIATED & CONDUCTED * "IEC 320-C14" Inlet Connector on the unit Detachable Power Cord with: - "IEC 320-C13" Connector on one end - NEMA5-15P Plug on the other end Terminal with Tubular Hole - Diameter 5mm / 0.2" and set screw (5/64" Hex Socket Head, #10, 24 TPl, 5/16" long) ENVIRONMENTAL * DIMENSIONS (W X D X H) * "IEC 320-C14" Inlet Connector on the unit Detachable Power Cord with: - "IEC 320-C13" Connector on one end - NEMA5-15P Plug on the other end ** Terminal with Tubular Hole - Diameter 5mm / 0.2" and set screw (5/64" Hex Socket Head, #10, 24 TPl, 5/16" long) ** DIMENSIONS AND WEIGHT* ** DIMENSIONS (W X D X H) ** TEC 320-C14" Inlet Connector on the unit ** Detachable Power Cord with: - "IEC 320-C13" Connector on one end - NEMA5-15P Plug on the other end ** Terminal with Tubular Hole - Diameter 5mm / 0.2" and set screw (5/64" Hex Socket Head, #10, 24 TPl, 5/16" long) ** DIMENSIONS AND WEIGHT* ** DIMENSIONS (W X D X H) ** TEC 320-C14" Inlet Connector on the unit ** Detachable Power Cord with: - "IEC 320-C13" Connector on one end - NEMA5-15P Plug on the other end ** Terminal with Tubular Hole - Diameter 5mm / 0.2" and set screw (5/64" Hex Socket Head, #10, 24 TPl, 5/16" long) ** DIMENSIONS (W X D X H) ** Terminal with Tubular Hole - Diameter 5mm / 0.2" and set screw (5/64" Hex Socket Head, #10, 24 TPl, 5/16" long) ** DIMENSIONS (W X D X H) ** Terminal with Tubular Hole - Diameter 5mm / 0.2" and set screw (5/64" Hex Socket Head, #10, 24 TPl, 5/16" long)	COMPLIANCE	SAFETY	,
AC INPUT CONNECTION **Detachable Power Cord with: - "IEC 320-C13" Connector on one end - NEMA5-15P Plug on the other end Terminal with Tubular Hole - Diameter 5mm / 0.2" and set screw (5/64" Hex Socket Head, #10, 24 TPI, 5/16" long) ENVIRONMENTAL **DIMENSIONS (W X D X H)** **DIMENSIONS AND WEIGHT** **Detachable Power Cord with: - "IEC 320-C13" Connector on one end - NEMA5-15P Plug on the other end Terminal with Tubular Hole - Diameter 5mm / 0.2" and set screw (5/64" Hex Socket Head, #10, 24 TPI, 5/16" long) **DIMENSIONS AND WEIGHT** **DIMENSIONS (W X D X H)** **DIMENSIONS AND WEIGHT** **DIMENSIONS AND WEIGHT** **DIMENSIONS (W X D X H)** **DIMENSIONS AND WEIGHT** **DIMENSION			FCC Part 15(B), Class B
DC OUTPUT CONNECTORS Terminal with Tubular Hole - Diameter 5mm / 0.2" and set screw (5/64" Hex Socket Head, #10, 24 TPI, 5/16" long) ENVIRONMENTAL OPERATING TEMPERATURE RANGE O°C / 32°F to 40°C / 104°F DIMENSIONS (W X D X H) 185 x 208 x 61 mm / 7.28 x 8.19 x 2.40 in	INPUT / OUTPUT CONNECTIONS	AC INPUT CONNECTION	 Detachable Power Cord with: "IEC 320-C13" Connector on one end
DIMENSIONS AND WEIGHT DIMENSIONS (W X D X H) 185 x 208 x 61 mm / 7.28 x 8.19 x 2.40 in		DC OUTPUT CONNECTORS	Terminal with Tubular Hole - Diameter 5mm / 0.2" and set
DIMENSIONS AND WEIGHT	ENVIRONMENTAL	OPERATING TEMPERATURE RANGE	0°C / 32°F to 40°C / 104°F
DIMENSIONS AND WEIGHT		DIMENSIONS (W X D X H)	185 x 208 x 61 mm / 7.28 x 8.19 x 2.40 in
	DIMENSIONS AND WEIGHT		

NOTE: Specifications are subject to change without notice

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