

## INTERNATIONAL + SERIES INSTALLATION INSTRUCTIONS

**RATINGS:**

Input: 100/120/215/230-240 V ac, 50/60 Hz, Refer to chassis marking for input current ratings.

Output:

Model	Output Ratings at 25°C Ambient With Airflow Specified - See Notes	Airflow	Level	Notes
CP197-A+	5 V 50 A (derate to 44 A at 50 °C)	35 cfm	L5	2,4,6
F5-25/OVP-A+	5 V 25 A	14 cfm	L3M1	2,3
F15-15-A+	12 V 16 A or 15 V 15 A	35 cfm	L5	2,3,5
F24-12-A+	24 V 12 A (derate to 10 A at 50 °C) or 28 V 10 A (derate to 8.6 A at 50 °C)	35 cfm	L5	2,4,6
F48-6-A+	48 V 6 A (derate to 5 A at 50 °C)	35 cfm	L1	2,4,7
G5-35/OVP-A+	5 V 35 A	35 cfm	L5	2,3,5
HDBB105W-A+	5 V 12 A; +12 V 1.7 A or +15 V 1.5 A; -12 V 1.7 A or -15 V 1.5 A or -5 V 0.7 A	26 cfm	L3M1	2,3
HDCC150W-A+	5 V 12 A; +12 V 3.4 A or +15 V 3 A; -12 V 3.4 A or -15 V 3 A or -5 V 1.5 A	35 cfm	L3M1	2,3
HDD15-5-A+	±12 V 5 A or ±15 V 5 A	14 cfm	L3M1	2,3
HE12-10.2-A+	12 V 10.2 A	14 cfm	L3M1	2,3
HE15-9-A+	15 V 9 A	14 cfm	L3M1	2,3
HE2-18-A+	2 V 18 A	14 cfm	L3M1	2,3
HE24-7.2-A+	24 V 7.2 A	14 cfm	L3M1	2,3
HE28-6-A+	28 V 6 A	14 cfm	L3M1	2,3
HE48-4-A+	48 V 4 A	14 cfm	L1	2,3,8
HE5-18/OVP-A+	5 V 18 A	14 cfm	L3M1	2,3

- Notes:
1. Models may be followed by suffix G to indicate compliance to RoHS.
  2. Derate output current ratings 10 % for operation at 50 Hz.
  3. No derating required for operation at 50 °C ambient unless specified otherwise above.
  4. For operation at >25 °C to 50 °C, derate output linearly to value shown in table.
  5. Output capable of exceeding 240 VA when overloaded.
  6. Output rating exceeds 240 VA.
  7. Output exceeds 240 VA and may exceed 60 V dc as a result of a component failure.
  8. Output may exceed 60 V dc under certain conditions.
  9. Maximum Relative Humidity 96 %, no condensation.
  10. Storage: -40 °C to +80 °C. Units should be allowed to warm-up under non-condensing conditions before application of power.

**CE SAFETY DECLARATION:** SL Power Electronics Corp. declares under our sole responsibility that all models listed above are in conformity with the applicable requirements of EN 60950-1 following the provisions of the Low Voltage Directive 73/23/EEC. All models are Certified to be in compliance with the applicable requirements of UL 1950, CSA 22.2 No. 234 (see table for level), and EN 60950-1 for Pollution Degree 2 environment and Class I TN-S power systems. The output of some models poses an energy hazard or do not meet the requirements for SELV. To identify these models, refer to the notes for the table above.

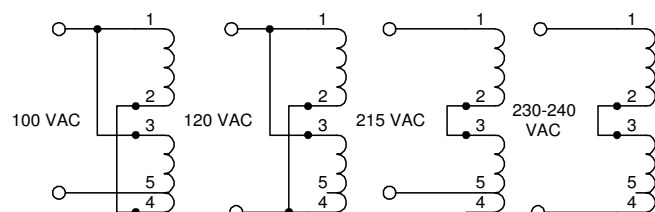
**GROUNDING:** Protection Class I requires that the chassis be bonded to Protective Earth in the end application.

**SPACINGS:** Creepage and clearance distances from primary circuits to ground and secondary circuits, as defined in the applicable safety standards, must be maintained after installation to preserve the intended safety.

**TEMPERATURES:** The maximum operating temperatures of certain safety components, as defined in the applicable safety standards, must not be exceeded after installation to preserve the intended safety. The output power, ambient air temperature and the availability, amount, direction and/or restriction of airflow influence the temperatures of these components.

**WARNING! RISK OF FIRE!** All models require external fusing to maintain the intended safety. Refer to marking on chassis for maximum fuse ratings.

**AC INPUT HOOKUP  
 INSTRUCTIONS**



**FUSING:** Internal Secondary fuse(s) are provided on the models listed below. A blown internal fuse is an indication of catastrophic failure of circuit component(s). Repair must be performed by SL Power Electronics Corp. authorized personnel. Fuse(s) must be replaced with the same type and ratings as listed below.

HB48-0.5-A+, HC48-1-A+: FN7 (T1) = F 1 A/125 V (Littlefuse P/N 251001 or Certified equiv.).

HD48-3-A+: FN7 (T1) = F 3 A/125 V (Littlefuse P/N 251003 or Certified equiv.).

HE48-4-A+: FN7 (T1) = F 5 A/125 V (Littlefuse P/N 251005 or Certified equiv.).

F15-15-A+, F24-12-A+, F48-6-A+: F1 (A1 PWB) = F 5 A/125 V (Littlefuse P/N 251005 or Certified equiv.).

CP197-A+, F5-25/OVP-A+, G5-35/OVP-A+: F1, F2 (A1 PWB) = F 5 A/125 V (Littlefuse P/N 251005 or Certified equiv.).

SL Power Electronics Corp. will not be liable for the safety, reliability or performance of these power supplies if a) any changes, modifications or repairs are carried out by other than authorized agents of SL Power Electronics Corp., or b) the installation of the supply is not in accordance with these installation instructions and the applicable UL, CSA, and EN safety standards.