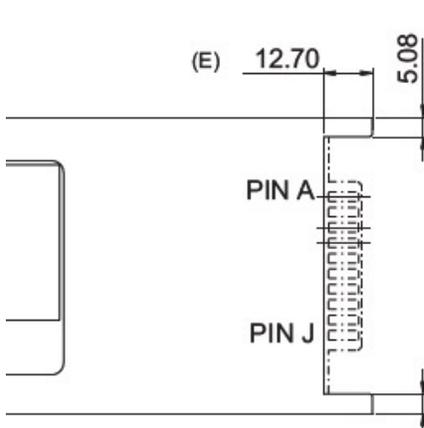


## Using the Delta DPSN-220AB A Power supply



This is a universal AC input (100-240V) modular (plug in) 220W supply that outputs a nominal 12VDC at up to 18A. It has a standard IEC line cord connector (with plug retainer) and green status light (when operating). **There is no fan inside the unit, but forced air (from within the cabinet) to exhaust the supply is a good idea above 10A to control heat build-up.**



### PIN ASSIGNMENTS

PIN NO.	RATING	PIN NO.	RATING
1	-SENSE	A	+SENSE
2	12V RTN	B	12V
3	12V RTN	C	12V
4	12V RTN	D	12V
5	12V RTN	E	12V
6	12V RTN	F	12V
7	12V RTN	G	12V
8	ID_0	H	POWER_FAIL
9	ID_1	I	ON/OFF
10	I-SHARE	J	I_MON

View from the case side (component side opposite)

### Connections:

**12V\_Return = -12V (Ground)**

**12V = +12V Output**

1. Connect all **12V\_Return pins together for current sharing**. Connect all **12V pins together for current sharing**. For remote sensing, connect the **+Sense line to the 12V outputs at the load**, and the **-Sense line to the 12V\_Return**. Sense connections are not essential (there are internal jumper resistors), but regulation will be seriously degraded without this external connection.
2. **To turn the unit ON, connect Pin I (On/Off) to the collective 12\_Return (ground) lines**. Note, this is Pin I (on the 12V output side), NOT Pin 1 (one).

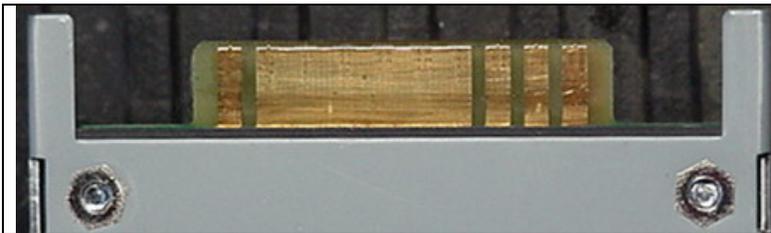
3. Pin 8 is open, Pin 9 is connected to the 12\_Return lines, used for external switching within a larger interconnect bay (Unit ID). Not required.
4. Pin H (Power\_Fail) appears to be an open collector flag (low current), normally pulled to ground when operation is good, goes high when faulted. Can drive an external LED or optocoupler (with limiting resistor), but not required.
5. Pin 10 (I\_Share) is for parallel connection of units, but full data is not available on how this is done. Not required.
6. Pin J (I\_Mon) outputs a voltage proportional to output current, starts at zero (no load, jumps to 1.5V at 1A, approx. 2.7V at full output. Not required.
7. There is an internal 10 ohm resistor jumpered between 12V\_Return and the case ground, presumably for improved RFI shielding. This means the unit is intended for negative ground systems.



“Number” side of connector, 12V-Return (Ground) side.

**Note small number 9 by Pin 9.**

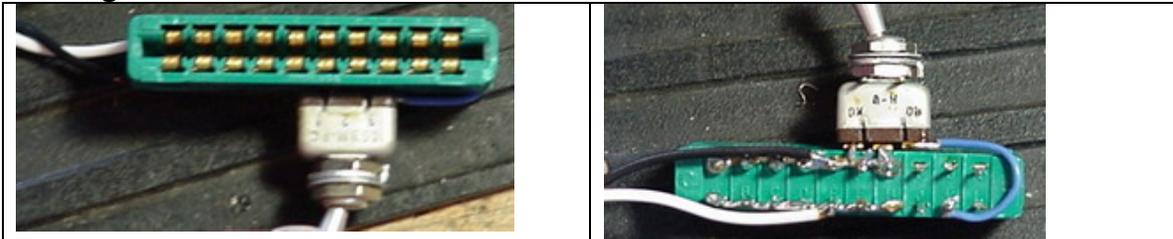
Note 10 ohm resistor jumpered from 12V\_Return to case ground at far left by case screw.



“Letter” side of connector, +12V Output side.

Pin 1 is at far left. Pin 10 at far right.

### Mating Connector views



### Connector details:

**20 position (10 double sided) edge connector, 0.156” contact spacing.**  
Cinch 252-10-30-300 for PC mounting version.

EDAC 306 or 316 or 356 series, 20 contact/dual row. A wider connector (more easily found) can be cut down to fit.