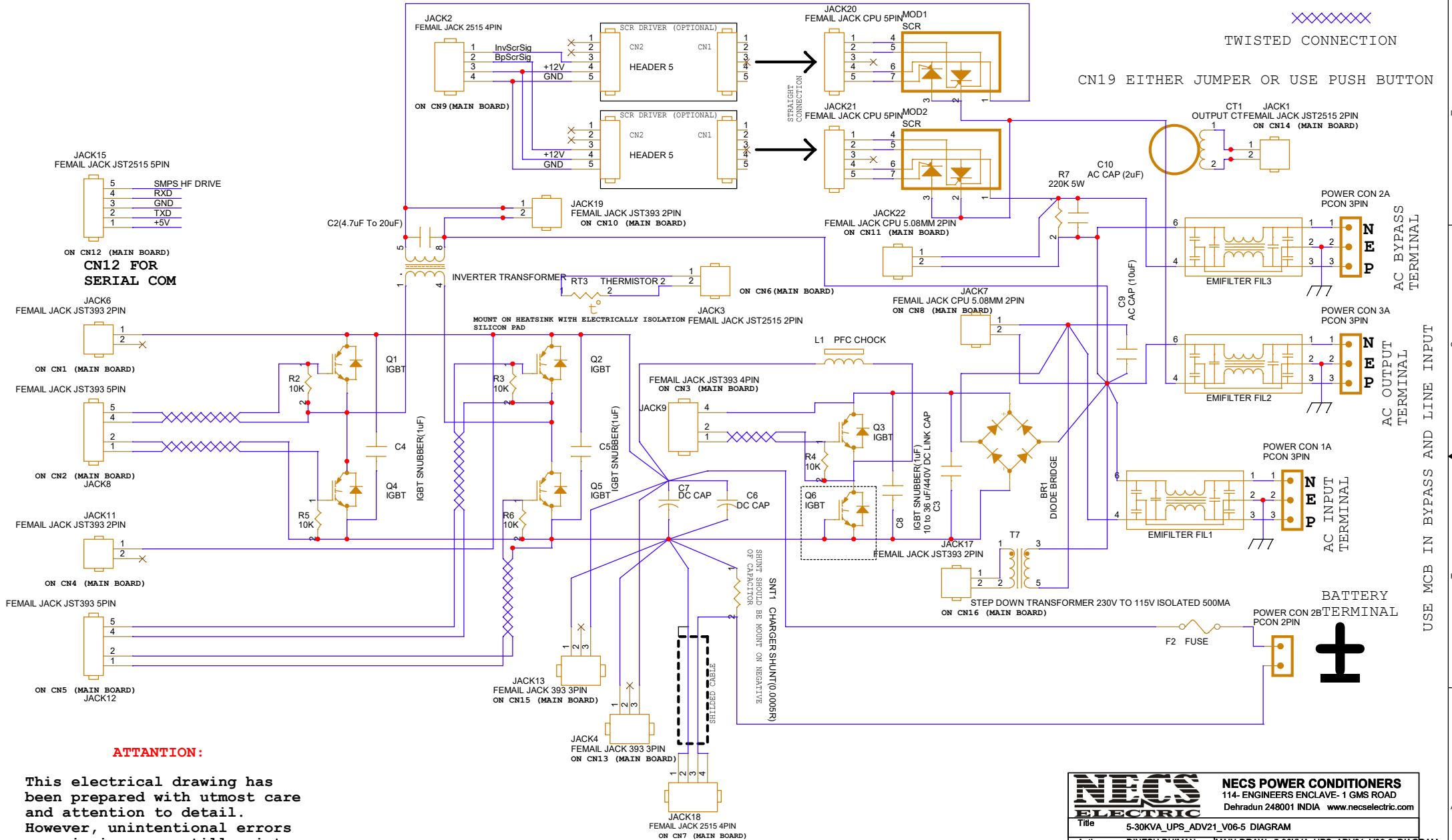




ATTANTION:

This electrical drawing has been prepared with utmost care and attention to detail. However, unintentional errors or omissions may still exist.

PLEASE MOUNT CORRECT VALUE OF DC SENSING RESESTANCE BEFORE USING THE CARD.

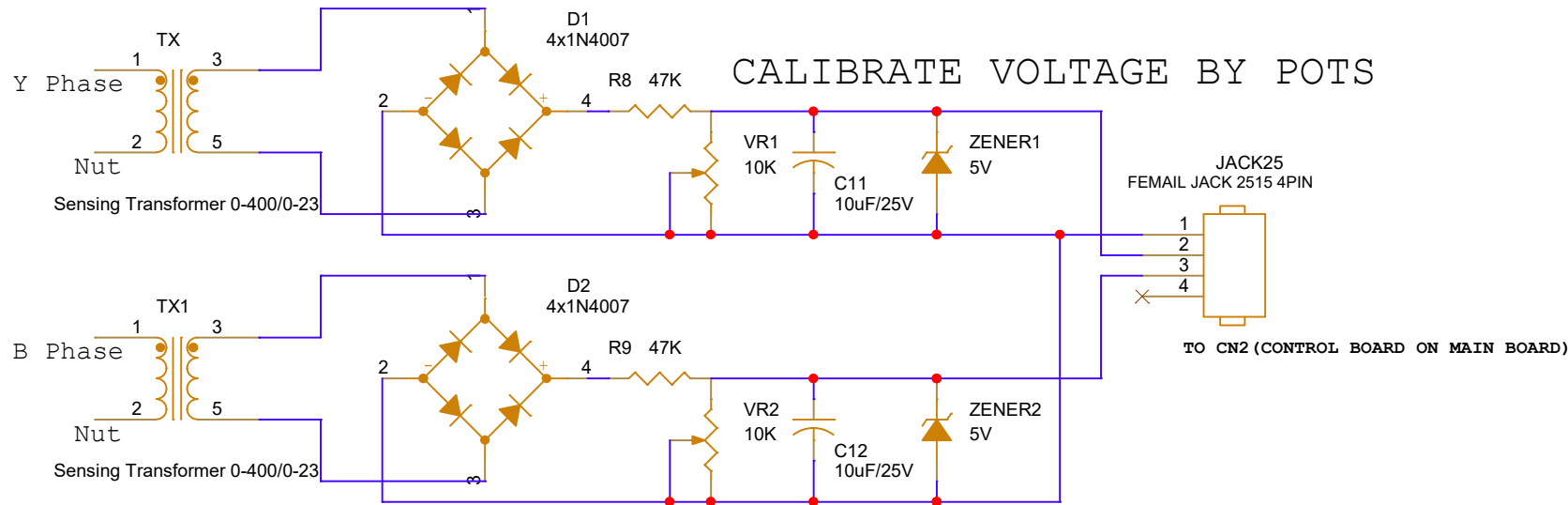
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Title 5-30KVA_UPS_ADV21_V06-5 DIAGRAM			
Author: DINESH DHIMAN		MAIN-DRAW: 5-30KVA UPS ADV21 V06-6 DIAGRAM SUB-DRAW: <SUB DRAW>	
Size B	Scamatic Name/Draw. Name <scamatic name>		Rev 32
	Design File Number <design file num.>		
Modify Date: Tuesday, July 22, 2025		Sheet 1 of 1	
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If 3phase Input UPS

The main board AC Sensing and Bypass Source Should be R Phase, The Y and B Phase can be sensing Via folowing Hardware, and Enabled in software



Title			
<Title>			
Size	Document Number		Rev
A	<Doc>		<RevCode>
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RESISTANCE TABLE FOR DIFFRENT CELLS

RESISTANCE TABLE

S.No.	Minimum Cell Numbers	Maximum Cell Numbers	Series Resistance Value
1	1	11	130K
2	12	17	220K
3	18	29	420K
4	30	41	660K
5	42	53	990K
6	54	65	1000K
7	66	83	1220K
8	84	107	1440K
9	108	161	2000K
10	162	204	3000K

There are two Strings of resistance R262+R262+R264 and R258+R259+R260, the combined Value of each string should be equal, and the value given in the table is combined value of one string, Example if you want to use 16 lead acid batteries than number of cells will be $16 \times 6 = 96$, The number of cell 96 falls in the row of of serial 8, the resistance combined value is 1440K. Now you need to make $R262+R262+R264 = R258+R259+R260 = 1440K$. Always take highest value resistance at sensing side. To make 1440K we can use 1000K at sensing side and 220K at next side so we can choose $R262 = R258 = 1000K, R262 = R259 = 220K$ AND $R264 = R260 = 220K$

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