

AA Solar

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FEATURES OF AA SOLAR SYSTEM 24VDC START and 24VDC HOUSE

1. Simplified electrical utilizing existing 24VDC system
2. Efficient direct charging from either systems charging to the other
3. All batteries always charged
4. Less expensive
5. Starting and house loads isolated when not charging
6. Redundant starting
7. Provision for necessary 12VDC loads
8. Auto switch between shore side and inverter for 240VAC system

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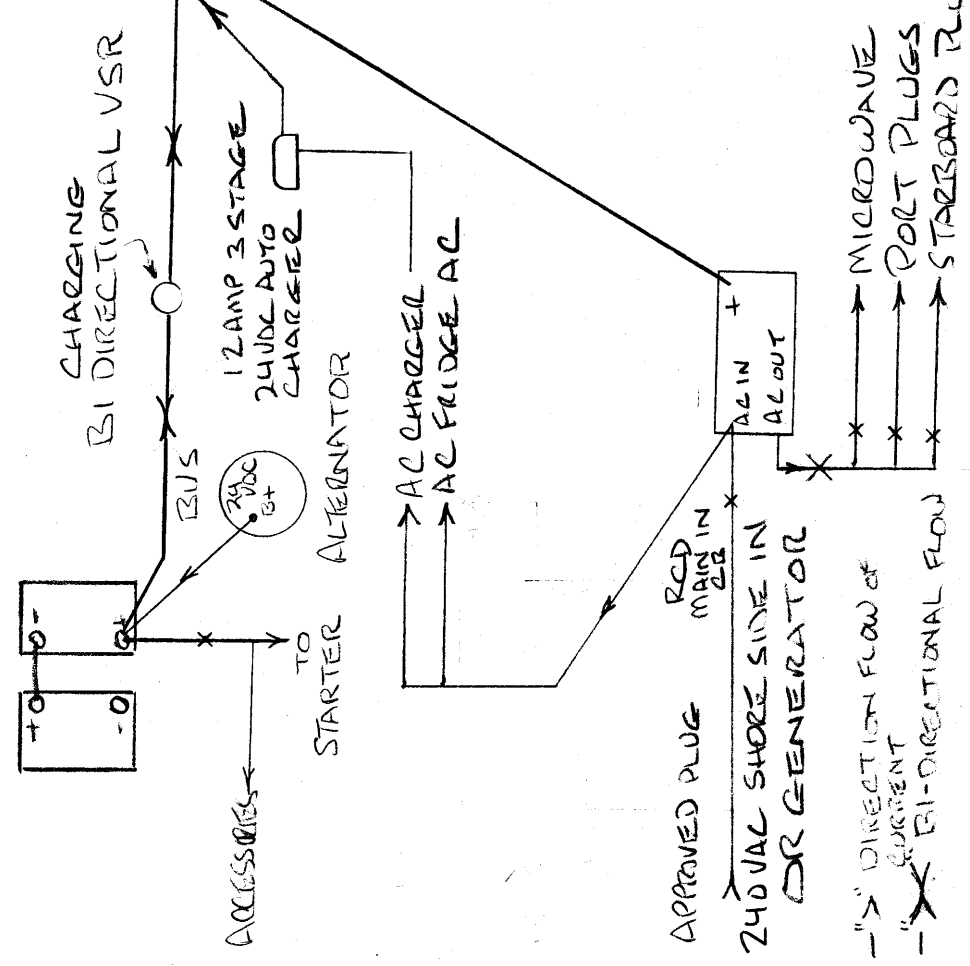
*Technical Sales and Service of Quality Electrics and Electronics at More Competitive Prices
For Remote Area Power Supplies (RAPS), Independent Power and Alternative Energy Production*

04/04/2005

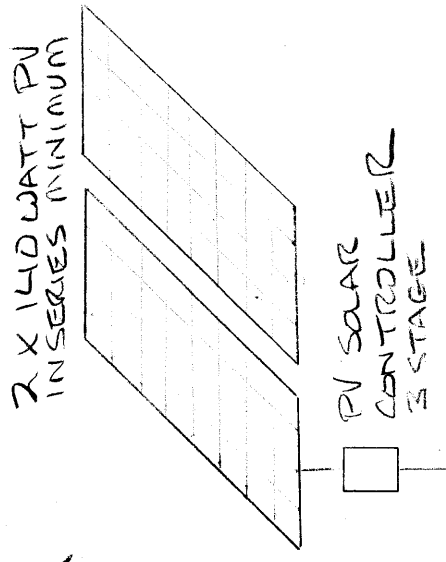
PRELIMINARY STUDY OF 24 VDC BUS SYSTEM

BUS START SYSTEM 24VDC

EXISTING BUS SYSTEM



-> DIRECTION FLOW OF CURRENT
 -< BI-DIRECTIONAL FLOW

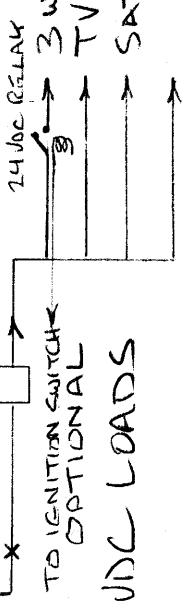


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24 VDC LOADS

- * LIGHTING PORT
- * LIGHTING STARBOARD
- * LIGHTING EXTERIOR
- * FRESH WATER PUMP
- * SHOWER SUMP PUMP
- * ACCESSORIES

24-12VDC CONVERTER 20AMP



12VDC LOADS

- * TO IGNITION SWITCH OPTIONAL
- * 3WAY FRIDGE 12VDC ELEMENT
- * TV
- * SATELLITE DISH, SKY DECODER

NOTES: -NEGATIVES + GROUND NOT SHOWN FOR CLARITY
 -SYSTEM DESIGN ASSUMING SOME 12VDC APPLIANCES
 -SYSTEM DESIGN HAS AC INVERTER WITH AUTO TRANSFER SWITCH
 -BI-DIRECTIONAL USE HAS EMERGENCY START PROVISION
 -X SWITCH CIRCUIT BREAKERS

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