


REV Description	Date	Appr.
A Initial release	5-8-13	

## BILL OF MATERIALS

- 1 23" x 16" x 1/2" board, HDPE-lite face, HDPE closed cell foam core  
Order from The Cutting Board Factory
- 2 3/8" crimp ring terminals, 3M 123-38-NB
- 1 Vinyl coated loom clamp, 3/4" opening, e.g. McMaster-Carr 8863T16
- 1 Solar regulator, Flexcharge NC30L12-M-UNVTC.  
Standard Flexcharge LVD settings (~11.0V OFF, ~12.9V ON)
- UNAVCO-spec temperature compensation for Dekka gel batteries.  
Order with 13" integral leads (no screw terminals).
- 2 Screwless end stop, Wago 249-116
- 5 Separator plate, Wago 281-327
- 22 2-conductor thru terminal block, Wago 281-601
- 44 Terminal markers, colored as shown, Wago 209-501
- 16 Insulated jumper, Wago 281-402
- 2 Shottky diodes, Vishay 80SQ045
- 1 Slotted carrier DIN rail, 15" length, Wago 210-162
- 2 30 amp DC breaker, AB 1492-SP1C300
- 1 10 amp DC breaker, AB 1492-SP1C100  
for load circuit (yellow wires)
- 40" 14AWG red wire, Polar Wire AUF-14-RED
- 36" 14AWG black wire, Polar Wire AUF-14-BLK
- 24" 14AWG orange wire, Polar Wire AUF-14-ORG
- 14" 14AWG yellow wire, Polar Wire AUF-14-YEL
- LOT wood screws, phillips drive, varying lengths  
Screws must NOT protrude from underside of board

- NOTES:
1. See Sheet 1 for wiring, regulator, and terminal block layout.
  2. See Sheet 2 for drilling template
  3. Screws must NOT protrude from underside of board.
  4. GPS receiver is elevated from board with four 1/4" thick standoffs.

<b>Polar Permanent GPS Station "Basic" Electronics Board</b> 2 Solar, 1 Main Battery Bank			
UNAVCO, Inc. POLAR SERVICES 6350 Nautilus Dr., Boulder CO 80301 303-381-7500, 303-381-7451 fax		<b>Part Number</b> <b>PPS-DC-008</b>	<b>Rev</b> <b>A</b>
Drawing: S. White Engineering: S. White Approval: _____ Date Modified: May 8 2013		SHEET <b>3</b> OF <b>3</b>	