



NiCd / NiMH Notes:

[Charging Temperature]  
Absolute (32 to 113) F  
Recommended (50 to 85) F

[Cell Voltage]  
1.20 V / Cell (Nominal)  
1.52 V / Cell (NiMH, Charged)  
1.65 V / Cell (NiCd, Charged)

(See) Figure 2.10 of <https://doi.org/10.1016/B978-0-12-407947-2.00002-X>  
<https://www.sciencedirect.com/topics/engineering/open-circuit-cell-voltage>

[14.4 V Battery Pack]  
(12 Cells in Series)  
PGM0 -- REF  
PGM1 -- BATT-  
PGM2 -- BATT-  
PGM3 -- REF  
-18.24 V Charged (NiMH)  
-19.80 V Charged (NiCd)  
4.8V Under-Volt Lock-Out

[18.0 V Battery Pack]  
(15 Cells in Series)  
PGM0 -- BATT-  
PGM1 -- REF  
PGM2 -- BATT-  
PGM3 -- REF  
-22.80 V Charged (NiMH)  
-24.75 V Charged (NiCd)  
6.0V Under-Volt Lock-Out

Star Ground  
GNDPWR GNDA

Sheet: /  
File: Battery\_Charger\_V1.sch

Title:

Size: A4  
KiCad E.D.A. eeschema (5.1.9)-1

Date:

Rev:

Id: 1/1