

24V 270W SP  
SOLAR PANEL  
PSU

24.00  
Volts

D1  
30LJQ045

R7  
20k

D2  
30LJQ045

DCDC1  
DC-DC-CONV

VIN+  
VOUT+  
VIN-  
VOUT-

15V SENSE

R9  
10k

R10  
5k

D13  
1N5231B

SW1  
SW-SPST

15V

14.7V max for BAT Charging

D3  
30LJQ045

B1, B2 = 12V 20Ah Each

Q1  
MTB50P03HDL

Q2:A  
NVMFD5873NLWF

Q3  
BC337

Q4  
NTP45N06L

BATV SENSE

R11  
20k

R12  
3.9k

D5  
1N5231B

PELTIER

PELTIER

PELTIER

PELTIER

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15A Load is max 15V@15A  
12V Load is max 12V@3A  
5A Load is max 5V@1A

<https://www.ebay.com/itm/WaterProof-24V-to-15V-20A-300W-DC-DC-Step-DOWN-Power-Converter-Regulator-/152975775363>

