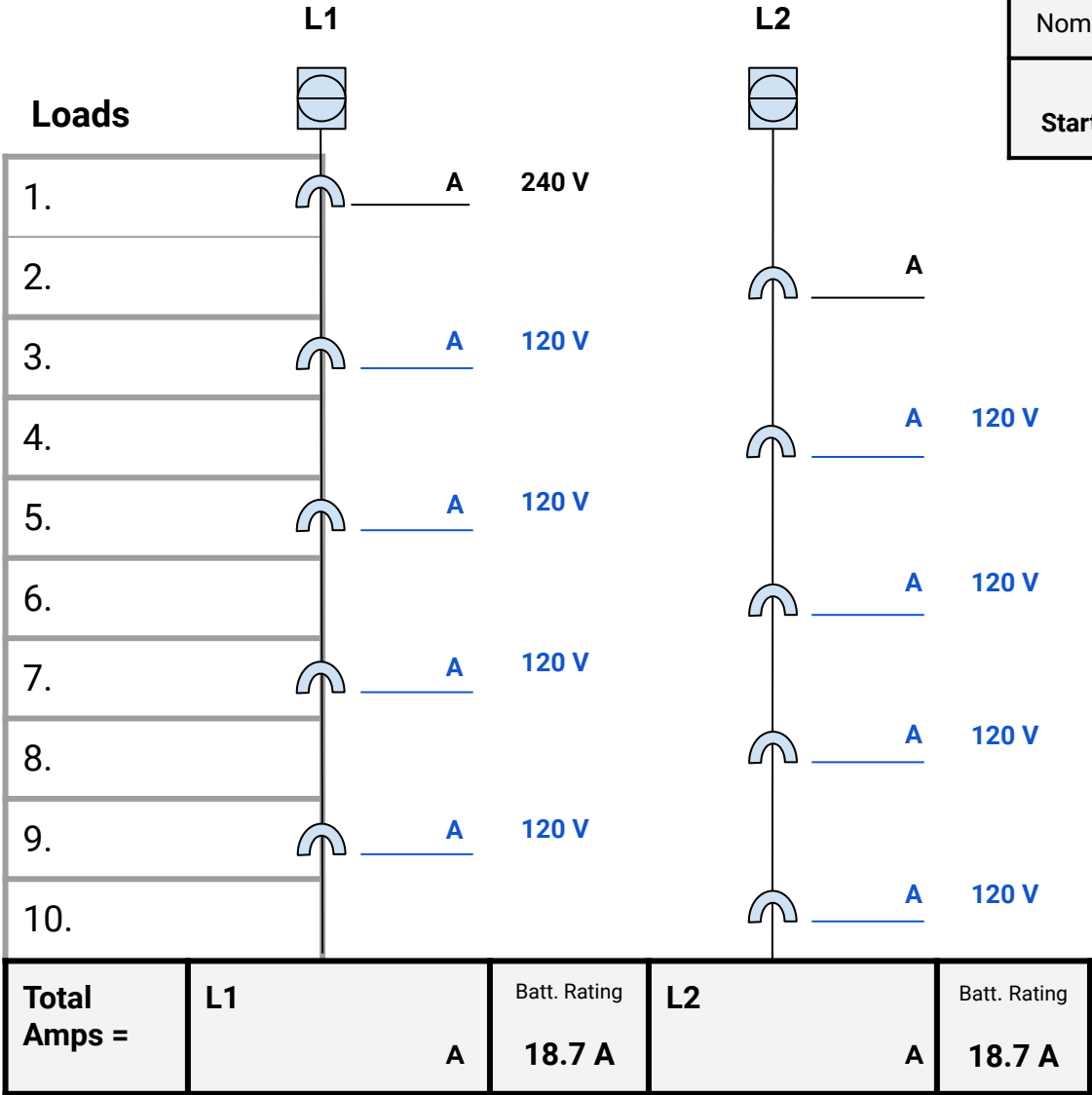


# Protected Loads Worksheet for PWRcell M4 Battery

4 Modules	240V	120V
4.5 kW Nominal Cont. AC Power	18.7 A	37.5 A
Peak Motor Starting Current (2 sec)	33 A, RMS	



**For Desired Loads:**

Find manufacturer's nameplate to obtain amperage rating & determine whether load is 240 volts or 120 volts.

Use the worksheet to fill in the amperage ratings of house loads. Estimate wattage of general use circuits by sq footage. Use the following for reference:

Watts (power) = Amps x Volts

Amps (current) = Watts / Volts

4.5 kW (4500 Watts) / 240 Volts = 18.7 Amps

EX. 1\* 60 Watt Light Bulb = .5 Amps  
(60 W / 120 V)

EX. 1\* 1200 Watt Pump = 5 Amps  
(1200 W / 240 V)

**NOTE:** For 240 volt loads enter amps on both L1 and L2.

Add amperages separately for L1 and L2. Compare with battery rating.

**NOTE:** For loads such as motors (e.g., well pumps, a/c units, etc.) that are not purely resistive, refer to the LRA rating of load or refer to NEMA rating of motor to account for inrush current. Reference peak motor starting rating to compare for this value. **With a protected loads panel configuration, max islanding output of inverter is 7.6 kW continuous during full sun conditions with a fully charged battery and a properly sized array.**