

CoP & Available Power vs Variables (to meet a specific %Ah discharge)

| No: | Capacity (Ah) | Coil V | HV (kV) | V _(pk) | PRF (Hz) | %Duty | Start Ah (%) | %Ah | Charge time | CoP | Time to replace E ¹ | Load I (A) ² | Ext. Load (A) | Ext. Power ³ | Comments |
|-----|---------------|--------|---------|-------------------|----------|-------|--------------|-----|-------------|-------|--------------------------------|-------------------------|---------------|-------------------------|--|
| 1 | 7 | 13.0 | 1.04 | 13.53 | 100 | 65 | 100 | 20 | 15 | 1.62 | 56 | 1.49 | 0.59 | 7.4 | 1 x LiFePO ₄ - PRF Test |
| 2 | 7 | 13.0 | 1.04 | 13.32 | 108 | 65 | 100 | 20 | 15 | 5.56 | 16 | 5.13 | 4.23 | 52.9 | 1 x LiFePO ₄ - PRF Test |
| 3 | 7 | 13.0 | 1.04 | 13.33 | 116 | 65 | 100 | 20 | 15 | 5.12 | 18 | 4.58 | 3.70 | 46.3 | 1 x LiFePO ₄ - PRF Test |
| 4 | 7 | 12.5 | 1.04 | 13.32 | 108 | 65 | 100 | 20 | 15 | 6.59 | 17 | 5.04 | 4.26 | 53.2 | 1 x LiFePO ₄ - Coil V Test |
| 5 | 7 | 12.0 | 1.04 | 13.33 | 108 | 65 | 100 | 20 | 15 | 6.64 | 21 | 4.07 | 3.41 | 42.7 | 1 x LiFePO ₄ - Coil V Test |
| 6 | 7 | 12.3 | 1.04 | 13.32 | 108 | 65 | 100 | 20 | 15 | 6.51 | 18 | 4.58 | 3.85 | 48.1 | 1 x LiFePO ₄ - Coil V Test |
| 7 | 7 | 12.7 | 1.04 | 13.33 | 108 | 65 | 100 | 20 | 15 | 5.54 | 18 | 4.58 | 3.75 | 46.9 | 1 x LiFePO ₄ - Coil V Test |
| 8 | 7 | 12.5 | 1.04 | 13.21 | 108 | 65 | 80 | 10 | 15 | 3.06 | 17 | 2.45 | 1.65 | 20.6 | 1 x LiFePO ₄ - Discharge Test |
| 9 | 7 | 12.5 | 1.04 | 13.24 | 108 | 65 | 90 | 20 | 15 | 5.82 | 19 | 4.48 | 3.71 | 46.4 | 1 x LiFePO ₄ - Discharge Test |
| 10 | 7 | 12.5 | 1.04 | 13.26 | 108 | 65 | 90 | 30 | 20 | 2.42 | 65 | 1.94 | 1.14 | 14.2 | 1 x LiFePO ₄ - Discharge Test |
| 11 | 7 | 12.5 | 1.04 | 13.25 | 108 | 65 | 90 | 15 | 15 | 9.94 | 8 | 7.70 | 6.92 | 86.5 | 1 x LiFePO ₄ - Discharge Test |
| 12 | 7 | 12.5 | 1.04 | 13.22 | 108 | 65 | 80 | 10 | 15 | 3.04 | 18 | 2.40 | 1.61 | 20.1 | 1 x LiFePO ₄ - Discharge Test |
| 13 | 7 | 12.5 | 1.04 | 13.23 | 108 | 65 | 80 | 15 | 15 | 2.64 | 30 | 2.10 | 1.30 | 16.3 | 1 x LiFePO ₄ - Discharge Test |
| 14 | 7 | 12.5 | 1.04 | 13.32 | 108 | 65 | 100 | 15 | 12 | 5.88 | 14 | 4.50 | 3.73 | 46.6 | 1 x LiFePO ₄ - Discharge Test |
| 15 | 7 | 12.5 | 1.04 | 13.25 | 108 | 65 | 90 | 15 | 10 | 13.40 | 6 | 9.90 | 9.15 | 114.4 | 1 x LiFePO ₄ - Discharge Test |
| 16 | 7 | 12.5 | 1.04 | 13.26 | 108 | 65 | 95 | 20 | 10 | 13.54 | 8 | 10.50 | 9.72 | 121.5 | 1 x LiFePO ₄ - Discharge Test |
| 17 | 7 | 26.0 | 1.04 | 26.76 | 108 | 65 | 100 | 20 | 15 | 1.77 | 26 | 3.22 | 1.41 | 17.7 | 2 x LiFePO ₄ - PRF Test |
| 18 | 7 | 26.0 | 1.04 | 26.62 | 108 | 65 | 100 | 20 | 15 | 3.06 | 15 | 5.60 | 3.77 | 47.1 | 2 x LiFePO ₄ - PRF Test |
| 19 | 18 | 12.5 | 1.04 | 13.40 | 180 | 65 | 100 | 10 | 10 | 3.42 | 35 | 3.09 | 2.33 | 29.1 | Li - PRF Test - (Fixed V _(pk)) |
| 20 | 18 | 12.5 | 1.04 | 13.40 | 140 | 65 | 100 | 10 | 10 | 8.75 | 35 | 3.09 | 2.37 | 29.6 | Li - PRF Test - (Fixed V _(pk)) |
| 21 | 18 | 12.5 | 1.04 | 13.40 | 120 | 65 | 100 | 10 | 10 | 3.67 | 38 | 2.88 | 2.18 | 27.3 | Li - PRF Test - (Fixed V _(pk)) |
| 22 | 18 | 12.5 | 1.04 | 13.40 | 150 | 65 | 100 | 10 | 10 | 9.56 | 30 | 3.60 | 2.90 | 36.3 | Li - PRF Test - (Fixed V _(pk)) |
| 23 | 18 | 12.5 | 1.04 | 13.40 | 150 | 65 | 100 | 10 | 10 | 2.79 | 30 | 3.60 | 2.90 | 36.3 | Li - PRF Test - (Fixed V _(pk)) |
| 24 | 18 | 12.5 | 1.04 | 13.40 | 220 | 65 | 100 | 10 | 10 | 6.84 | 30 | 3.60 | 2.82 | 35.3 | Li - PRF Test - (Fixed V _(pk)) |