

XTREME POWER CONVERSION **Li90** vs Eaton **9355 30K** COMPARISON

The Xtreme Power Li90 and Eaton 9355 are both high-performance, online double-conversion UPS systems designed to protect critical loads. The comparison below highlights key differences that demonstrate the Li90's performance, efficiency, and lifecycle advantages.



30kVA 208/120V 3 Phase UPS comparison

| | Xtreme Power Li90 30kVA | Eaton 9355 30kVA | Advantage |
|------------------------------|--|---|---|
| Capacities | 30kVA / 30kW | 30kVA / 27kW | Li90 delivers full-rated power (unity PF) for maximum usable capacity. |
| Battery Technology | Lithium Iron Phosphate (LiFePO ₄) | Lead Acid | Li90's LiFePO ₄ batteries last up to 5× longer, offer wide temperature tolerance, and are 60% smaller and lighter than VRLA. |
| Efficiency / Heat Disipation | 94.5 % (online) / 5,954 BTUH | 91 % (online) / 9,220 BTUH | Li90's higher efficiency reduces heat output and cooling requirements. |
| Maintenance Bypass | Standard (integrated) | Standard (integrated) | Both include integrated maintenance bypass for seamless servicing. |
| Size (W x D x H) / Weight | 12.6 x 35.2 x 49.2 in / 483 lb | 20 x 34 x 66 in / 1160 lb | Li90 provides full 30 kW capacity in a compact, lightweight design, occupying less floor space than comparable systems. |
| Internal Battery Runtimes | 15 minutes @ 30 kW | 11 minutes @ 27 kW | Li90 provides longer runtime at full load. |
| Battery Life | Up to 15 years or 3000 to 5000 cycles (LiFePO ₄) | 3–5 years or ~300 cycles (VRLA) | Li90 batteries last up to 5× longer than VRLA, reducing replacement and maintenance costs. |
| Temperature | Up to 50°C (122°F) | Up to 40°C (104°F) | Li90 operates reliably in higher ambient temperatures. |
| Battery Warranty | 5 years (LiFePO ₄) | 2 years (VRLA) | Li90 provides more than 2× the battery warranty coverage. |
| Start-up and Warranty | Start-up included; 2-year warranty (USA & Canada) | Start-up included; 1-year parts / 90 days labor | Li90 offers longer standard system warranty coverage. |