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MotoCrane 48V power for RADICAL and ULTRA

LIMITS

48VDC into the PSU. 45 to 60VDC max.

Over 60VDC = permanent damage.

Source must deliver 40A peak or more.

SOURCES

UPC: 4x V-Mount. Add 12VA to run off the vehicle 12V battery.

MotoBatt: 48V 18Ah LiFePO4, 865Wh, 8 to 10 h, about 6 h recharge on 3A charger.

DIY: 4x 12V lead-acid in series, all the same Ah.

CAPACITY

RADICAL guide: 15Ah for a typical 8 h day.

ULTRA guide: 10Ah for a typical day.

Busy arm work: bigger pack or a backup.

VOLTAGE CODES

RADICAL: 122 over 59V warn, 123 over 60V error, 125 under 46V warn, 126 under 45V error.

ULTRA: 121 over 59V, 122 under 46V, 123 over 60V, 124 under 45V.

Independent summary by Moving Shot. Not an official MotoCrane document and not affiliated with MotoCrane, LLC. Source: RADICAL 48V Power Guide v1.2; ULTRA 48V Power Guide; RADICAL Troubleshooting Guide v4.0; ULTRA Troubleshooting Guide v3 at motocrane.com/knowledge-base. Always follow the current MotoCrane manual. MotoCrane Support: support@motocrane.com, +1 (612) 361-2325. Full guide: movingshot.com/knowledge/motocrane