

Power Requirements for Up to Three (3) the Inspire/Matrice PRCS

Each Inspire/Matrice PRCS charging system fully loaded with 4 batteries draws “at peak” about 6 amps from the 120VAC circuit.

This translates to 720W for one (1) Inspire/Matrice PRCS charger.

If you are using two (2) Inspire/Matrice PRCS chargers, from the same source, they will draw 12A and 1440W.

And of course if you are using three (3) Inspire/Matrice PRCS chargers, from the same source, they will draw 18A and 2160W.

Inverters should be rated at 1.5x the wattage required by the load, i.e. Inspire/Matrice PRCS charging systems.

Therefore, 1 Inspire/Matrice PRCS charging system needs an inverter rated at 1000W+, 2 = 2200W+ and 3 = 3200W+.

Obviously these are serious power hogs and you need to make sure the 12VDC source (inverter and wiring) can handle this much of a load.

An ordinary car electrical system with the engine running will possibly provide 800W-1000W if the inverter is wired directly to the battery.

Also, three chargers could never be powered by a single 15A, 120V house circuit.