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A rapid charging power supply system comprises: a stationary rapid charger (11) for controlling power supplied from a power supply (1) to be a DC power optimum for rapidly charging an on-vehicle electric storage means (85c) equipped in a second electric moving body (53); a power supply switching means (11m) for switching and supplying the DC power from the stationary rapid charger (11) to either a first charging circuit (20A) for supplying the DC power to a first electric moving vehicle (50) or a second charging circuit (20B) for supplying the DC power to the second electric moving body (53); an stationary electric storage means (15) capable of storing DC power charged by the DC power supplied to the side of the first charging circuit (20A) from the stationary rapid charger (11) via the power supply switching means (11m) and used for being directly supplied to at least the first electric moving body (50); and a power feeding control means (12) for stopping power supply to the stationary electric storage means (15) from the stationary rapid charger (11) when charging an on-vehicle electric storage means (85) of the first electric moving body (50) by the DC power output from the stationary electric storage means (15).