

{Abstract}

In order to reduce electric power supplied from a commercial power supply to a crane to thereby enable low-voltage power transmission, a power supply apparatus (40) includes a battery (42) for supplying electric power to an electric power load of the crane, the battery (42) being chargeable and dischargeable; and a PWM converter (41) that receives supply of a predetermined electric power from the commercial power supply. A charge/discharge controlling apparatus (53) calculates an electric power difference between the electric power consumed by the electric power load and the electric power supplied from the commercial power supply, and a charging/discharging apparatus (48) charges/discharges electric power according to the calculated electric power difference to/from the battery (42).