

Award Winning Ecogate MASTER System

NEW



Ultimate in Dust Collecting

Power MASTER unit, version 3.00



Specifications

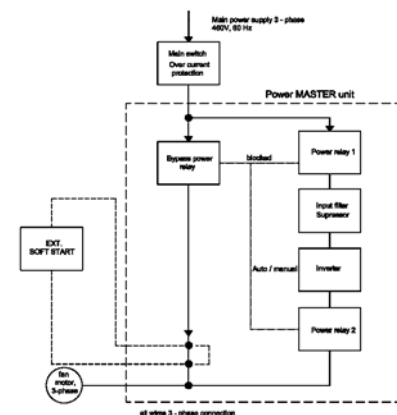
Power MASTER units	Available models: EG112A, EG117A, EG125A, EG130A, EG140A, EG145A, EG160A, EG175A, EG190A, EG1110A, EG1150A, EG1180A, EG1210A, EG1260A, EG1300A, EG1370A, EG1500A, EG1670A. Explanation: model EG1300A maximum current is 300 Amps, rated approx. for 250 HP fan. Complete pre-engineered package ready for installation.
Options	Power MASTER units can be ordered with or without these options: input breaker, input filters, bypass contactors, isolating contactor for external soft start, star-delta soft start (requires motor with six outlets), Transport On Demand (to control filter and transport).
Dimensions	Enclosure size A (36x36x12") up to EG140A, Enclosure size B (79x36x25") up to EG1300A, Enclosure size C (94x46x30") up to EG1670A.

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Power MASTER is trademark of ECOGATE, Inc. U.S. patents 6,012,199; 7,146,677; other patents pending.

Power MASTER, included in package:

1. Input breaker (with adjustable current), Input RF filter and AC line reactors.
2. Omron (Japan) inverter Sysdrive 3G3PV series (over current, over voltage, over torque, under voltage, loss phase, loss ground protection included).
3. Two inverter isolating contactors, one bypass contactor.
4. Terminals for external soft-start (used for bypass operation only).
5. 460/230V step-down transformer (for greenBOX power supply) built-in.
6. Cooling-air dust filter, cooling fans, special enclosure with two compartments.
7. Door controls (Emergency Stop, Auto/Manual, Fan On, Error Reset), Door indicators (Power, Auto, Fan Run, Error, Input Enable).
8. PCB with control logic, input enable interface, error input (for example bin full signal), RS-485 serial input and through terminals.
9. Several different output signals (RUN, ERROR, AUTOMATIC, MANUAL).
10. Differential current protection for Power MASTER internal power supply.



Power MASTER Features:

1. Advanced serial line communication between inverter and computer (kW, current to the motor, voltage, last error dump values, and detailed status) up to four inverters can be controlled via one RS-485 serial line.
2. Automated one button setup of inverter via greenBOX computer (much easier and time saving setup, prevention of programming errors, more than 100 variables should be programmed).
3. One button switch to MANUAL (bypass) operating mode using two isolating contactors and one bypass contactor.
4. Modem communication via greenBOX with any Windows PC with Ecogate DataMining software (savings evaluation & workstation activity reports, firmware update, warnings & errors, service requests, plant efficiency evaluation, consumption and more).
5. History of inverter errors and warnings accessible from touch screen and remotely via modem for fast debugging, inverter error messages are displayed on greenBOX MASTER screen in plain English.
6. System Auto-start /Auto-stop, fan start current reduction by using S-curve ramp, Fan shut off programmable delay.
7. Two enclosure compartments for best cooling and protection of sensitive parts against dust.
8. Interlock feature (if transport fan is not running, system stops automatically).
9. "System Run" output for spark detection systems.
10. Computer RUN safety feature (if greenBOX computer is not running correctly, Power MASTER is automatically stopped).
11. "Negative pressure too high" safety feature, two levels protection.
12. Savings of whole system settings to/from CompactFlash card (backup, documentation for customer & installer, setting).
13. Statistical functions (average # of running workstations, average power, etc.) via DataMining software.
14. I/O boards for easier, faster, cost effective connection (plug-in terminals & color coding); Test switches (input enable, run) & Indicators for faster debugging.

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