**5500 Series Power Supply**

**Specifications**

**MECHANICAL**
- Enclosure: 4” x 12” x 15” Steel
- Weight: 14 lbs. (average) add approx. 6 lbs. per battery
- Color: Off-white

**ELECTRICAL**
- Input Power: 1A @ 115VAC, 50-60 Hz
- Output Voltage: 12VDC - nominal 13.8V
- Output Current: 3A @ 12VDC / 2A @ 24VDC
- Input Fuse: 1A 3AG Slo Blo
- Output Fuses: Battery/DC Output - 5A 3AG Slo Blo
- DB Fuses: Self-resetting when powered down for 2 minutes
- Basic Outputs: Capacity 10AWG
- Module Outputs: Capacity 14 AWG

**Locking Device**
- **Max Load (A)**: 3A, 2A
- **Output Voltage (V)**: 12VDC, 24VDC
- **Locking Device**: 1300, 2511, 2011/3006, 3210/3101B

**Recommended Wire Gauge**

**load current at 12V**

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**load current at 24V**

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**Description**

DynaLock 5500 Series Power Supply offers the reliability of solid state electronics, versatility of field selectable voltage output, and flexibility of modular design. Use direct power output or choose one of the available expansion boards. Specify a distribution board (DBS / DB10) for 5 or 10 individual fused outputs. Add individual control modules for switched outputs, with or without time delay. Specify the interlock logic board (ILB) option for a 4 DPDT relay board. Optional fire alarm control (FAC) relay provides integration with fire or emergency alarm system. A battery charging circuit is standard. Specify 4 or 7 amp hours, and 12 or 24 volts for battery backup.

The DynaLock 5500 Power Supply provides clean, filtered, and regulated DC voltage. Specify for all electronic devices, including access controls, electromagnetic locks, and CCTV.

**Optional Features**
- Anti-Tamper Switch (ATS) indicates unauthorized opening of the enclosure cover.
- Key Lock (KLC) for enclosure cover.
- Fire Alarm Control (FAC) tie point.
- Power Cord (PC) for use with typical wall plug in lieu of hard-wired 120 VAC.
- Individual Fused Outputs: Individual Control Modules (CM/CMTD) offer the flexibility of selectable inputs (NO/NC), fail-safe or fail-secure outputs, and adjustable time delay.

**5500 Series**

**Medium Duty Power Supply**

- 3A @ 12VDC / 2A @ 24VDC
- Up To 10 Fused Outputs
- Fire Alarm Tie-In
- Battery Back-Up
- Lifetime Warranty

**Recommended Wire Gauge**

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**Options**

- **ATS** - Anti-Tamper Switch - Signals opening of enclosure cover (SPST, NO contacts)
- **BBU1-4** - Battery Back-Up - 4 AH @ 12VDC, 1 battery
- **BBU1-7** - Battery Back-Up - 7 AH @ 12VDC, 1 battery
- **BBU2-4** - Battery Back-Up - 4 AH @ 24VDC, 2 batteries
- **BBU2-7** - Battery Back-Up - 7 AH @ 24VDC, 2 batteries
- **CAB** - Cable Kit - For third party batteries (included at no charge with all BBU options)
- **CM** - Control Module - Plug in allowing control over individual outputs (requires DB5 or DB10)
- **CMTD** - Control Module with Time Delay - Plug in, 0-80 second relock delay (requires DB5 or DB10)
- **DB5** - Distribution Board - 5 zone fused, accepts any combination of up to 5 CMs or CMTDs
- **DB10** - Distribution Board - 10 zone fused, accepts any combination of up to 10 CMs or CMTDs
- **FAC** - Fire Alarm Control - Plug in for connection to fire alarm system (One per supply)
- **FACMR** - Fire Alarm Control, Manual Reset - Latches upon fire alarm (Requires FAC option)
- **ILB** - Interlock Logic Board - Four DPDT relays
- **KLC** - Key Locked Cover - Includes 2 keys
- **PC** - Power Cord - Six foot, pre-connected, 3-wire plug-in line cord

**5500 Components**

**Primary Circuit Board**

**Transformer**

**Voltage Output Selector Switch**

**DB5/DB10 Distribution Board**

**Control Jumper**

**Self-Restoring Fuse**

**Individual Fused DC Outputs**

**AC Line Input**

**Fuse**

**Battery Connection DC Output Fuse**

**Battery Fuse**

**Basic DC Output**

**Control Module**

**FAC Module Plug-In**

**Line Input Fuse**

**Transformer**

**Time Delay Adjustment**

**Options**

**DB5/DB10 Distribution Board**

Two distribution boards, 5 and 10 outputs respectively, are available to provide fused individual tie points, to facilitate lock wiring. The output fuses are self-restoring by correcting the overload and disconnecting the line voltage for 2 minutes. A control jumper at each station selects unswitched voltage or the use of a Control Module.

**FAC Module**

Fire Alarm Control. Plugs into the primary circuit board. When a signal is received from an emergency panel it instantly unlocks all locking devices driven by the 5500 Power Supply. The module will automatically reset when the emergency signal is restored or may be wired to require a manual reset (FACMR).

**CM & CMTD Modules**

Control Module and Control Module with Time Delay. Plug-in isolation relay board to switch lock power. Includes auxiliary relay contacts to signal other devices such as CCTV or interlocks. The CMTD module offers the same features with the addition of an adjustable 0-80 second delay on relock.

**ILB Board**

Interlock Logic Board. Four DPDT relays for control of interlocks. Each relay has an individual trigger which can be set for 12 or 24VDC input.
Options

**ATS**  ANTI-TAMPER SWITCH - Signals opening of enclosure cover (SPST, NO contacts)

**BBU1-4**  BATTERY BACK-UP - 4 AH @ 12VDC, 1 battery

**BBU1-7**  BATTERY BACK-UP - 7 AH @ 12VDC, 1 battery

**BBU2-4**  BATTERY BACK-UP - 4 AH @ 24VDC, 2 batteries

**BBU2-7**  BATTERY BACK-UP - 7 AH @ 24VDC, 2 batteries

**CAB**  CABLE KIT - For third party batteries (included at no charge with all BBU options)

**CM**  CONTROL MODULE - Plug in allowing control over individual outputs (requires DB5 or DB10)

**CMTD**  CONTROL MODULE with TIME DELAY - Plug in, 0-80 second relock delay (requires DB5 or DB10)

**DB5**  DISTRIBUTION BOARD - 5 zone fused, accepts any combination of up to 5 CMs or CMTDs

**DB10**  DISTRIBUTION BOARD - 10 zone fused, accepts any combination of up to 10 CMs or CMTDs

**FAC**  FIRE ALARM CONTROL - Plug in for connection to fire alarm system (One per supply)

**FACMR**  FIRE ALARM CONTROL, MANUAL RESET - Latches upon fire alarm (Requires FAC option)

**ILB**  INTERLOCK LOGIC BOARD - Four DPDT relays

**KLC**  KEY LOCKED COVER - Includes 2 keys

**PC**  POWER CORD - Six foot, pre-connected, 3-wire plug-in line cord

---

**5500 COMPONENTS**

**PRIMARY CIRCUIT BOARD**

**TRANSFORMER**

**LINE INPUT**

**FUSE**

**AC LINE INPUT**

**BATTERY CONNECTION**

**DC OUTPUT FUSE**

**BATTERY FUSE**

**CONTROL MODULE**

**INDIVIDUAL FUSED DC OUTPUTS**

**VOLTAGE OUTPUT**

**SELECTOR SWITCH**

**DB5/DB10 DISTRIBUTION BOARD**

**CONTROL JUMPER**

**SELF-RESTORING FUSE**

**TIME DELAY ADJUSTMENT**

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**DB5 / DB10 Distribution Board**

Two distribution boards, 5 and 10 outputs respectively, are available to provide fused individual tie points, to facilitate lock wiring. The output fuses are self-restoring by correcting the overload and disconnecting the line voltage for 2 minutes. A control jumper at each station selects unswitched voltage or the use of a Control Module.

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**FAC Module**

Fire Alarm Control. Plugs into the primary circuit board. When a signal is received from an emergency panel it instantly unlocks all locking devices driven by the 5500 Power Supply. The module will automatically reset when the emergency signal is restored or may be wired to require a manual reset (FACMR).

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**CM & CMTD Modules**

Control Module and Control Module with Time Delay. Plug-in isolation relay board to switch lock power. Includes auxiliary relay contacts to signal other devices such as CCTV or interlocks. The CMTD module offers the same features with the addition of an adjustable 0-80 second delay on relock.

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**ILB Board**

Interlock Logic Board. Four DPDT relays for control of interlocks. Each relay has an individual trigger which can be set for 12 or 24VDC input.
DynaLock 5500 Series Power Supply offers the reliability of solid state electronics, versatility of field selectable voltage output, and flexibility of modular design. Use direct power output or choose one of the available expansion boards. Specify a distribution board (DB5 / DB10) for 5 or 10 individual fused outputs. Add individual control modules for switched outputs, with or without time delay. Specify the interlock logic board (ILB) option for a 4 DPDT relay board. Optional fire alarm control (FAC) relay provides integration with fire or emergency alarm systems. A battery charging circuit is standard. Specify 4 or 7 amp hours, and 12 or 24 volts for battery backup.

The DynaLock 5500 Power Supply provides clean, filtered, and regulated DC voltage. Specify for all electronic devices, including access controls, electromagnetic locks, and CCTV.

**Recommended Wire Gauge**

- **Load Current At 12V**
  - 2A: 14 AWG, 10 AWG, 8 AWG
  - 3A: 12 AWG, 10 AWG, 8 AWG
  - 5A: 10 AWG, 8 AWG

- **Load Current At 24V**
  - 1A: 16 AWG, 14 AWG
  - 2A: 14 AWG, 12 AWG
  - 3A: 12 AWG, 10 AWG
  - 5A: 10 AWG, 8 AWG
  - 6A: 8 AWG

**Description**
- Filtered and Regulated Voltage Output
- Field Selectable 12 or 24 VDC
- Built-in Charging Circuit
- Hinged Cover Enclosure: Off-white finish with conduit knockouts and optional key lock cover. Dimensions 4”x12”x15”
- Lifetime Warranty: Made in the USA by DynaLock, with over 20 years experience in the manufacture of electromagnetic locks.

**Option features**
- Anti-Tamper Switch (ATS) indicates unauthorized opening of the enclosure cover.
- Key Lock (KLC) for enclosure cover.
- Fire Alarm Control (FAC) tie point.
- Power Cord (PC) for use with typical wall plug in lieu of hard-wired 120 VAC.
- Individual Fused Outputs: 5 (DB5) or 10 (DB10) output distribution board.
- Controlled Outputs: Individual Control Modules (CM/CMTD) offer the flexibility of selectable inputs (NO/NC), fail-safe or fail-safe outputs, and adjustable time delay.