



Hyperdrive PDU Control Unit – Deutsch Enclosure

| GENERAL | |
|---------------------------|---|
| Part Number | HYP-00-2857 |
| Enclosure | Deutsch EEC (Header: DT13-48PABCD-R015, Enclosure: EEC-5X650B) |
| Mating Connectors | 4 x Deutsch DT06-12SX plugs, where X = A, B, C and D |
| Maximum Battery Voltage | 60V (1 series HDI Modular Packs), up to 250V (4-series) available on request |
| FEATURES | |
| Contactor Control | Contactor coil power for 12V contactor with maximum 1.5A current draw |
| Contactor Weld Detect* | Checks for contactor welds on boot (requires auxiliary contacts) |
| CAN Bus/Auxiliary outputs | 3 x CAN bus outputs, each with 12V @ 1A max. power supply output |
| CAN Termination* | 120Ω Termination resistor selectable with on-board Jumper |
| Digital Status Outputs | Open collector outputs for switching up to 36V @ 20mA |
| Pre-Charge* | 12Ω Pre-Charge Circuit with voltage sensing |
| Discharge** | 120Ω resistor to discharge DC bus when powered down |
| Key Switch Control* | Inputs for use with 'OFF-ON-START' style Key-Switch |
| Emergency Stop Control* | Inputs to connect Emergency stop or Interlock Circuit |
| | <small>* Feature is optional and selectable with on-board jumper ** Feature may not be suitable for systems with 2 or more DC power sources</small> |
| POWER SUPPLY | |
| Power Supply Voltage | 12V |
| Power Supply Current | Supply must be capable of the sum of: <ul style="list-style-type: none"> • 200mA for internal circuitry • Contactor coil peak/inrush current • Current consumption of devices connected to Auxiliary outputs |
| Power Supply Sources | Must be powered from a source independent of the pack voltage, e.g. Mains Adapter or Lead Acid Battery |
| Internal Fusing | 5x20mm cartridge fuses: 5A for Contactor and 4 x 1A for power outputs |
| MECHANICAL | |
| IP Rating | IP68 and IP6K9K (with rear protection on connectors, such as back-shell) |
| Dimensions (W x L x H) | 160 x 200 x 54mm, connectors fitted: L=210mm. Allow extra space for wiring |
| Weight | 0.7kg |
| Mounting Fixtures | 4 x M6 through-holes |
| EXTERNAL REQUIREMENTS | |
| Contactor | 12V non-latching coil, see modular pack user manual for more information |
| Fuse | Refer to modular pack user manual |
| Power Cabling/Bus Bars | Refer to modular pack user manual |

**Suitability of PDU for the specific application to be reviewed by Hyperdrive.
Only to be used in Hyperdrive approved applications**



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