

# Hold-up Module for 6U PSC-6265 Power Supply



## Features

- ◆ 50 mSec hold-up time compliant with MIL-STD-704F
- ◆ Employs a soft start charge circuit that limits in rush current on system power-up
- ◆ Designed to pair with Dawn's PSC-6265 6U Power Supply
- ◆ Hold-up trigger input for activation when used in combination with the PSC-6265
- ◆ Front panel LED charge status indicator
- ◆ VITA 48.2 Compliant Inject/Eject levers for easy installation



## Overview

Dawn's HLD-6262 Holdup Module works in conjunction with our PSC-6265 6U power supply to overcome input power interruption gaps in the normal input power source of up to 50 msec, as specified by MIL-STD-704F. One such example of a "gap" would be the cutover of aircraft instrumentation power from a ground based APU to the aircraft's own generators.

An integrated soft-start charge circuit limits the in-rush current at system power up. A status LED embedded in the front panel indicates current charge status.

The HLD-6262 is based on a 6U 1-inch pitch form factor and is compliant with VITA 48.2. Mounting of the module is accomplished by securing a pair of VITA 48.2 wedgelocks. The module is fitted with VITA 62 compliant connectors (P0 TYCO 6450843-6 and P1 TYCO 6450849-6) allowing the unit to source power, trigger hold-up, and feed power to the paired power supply via a common backplane.

## Specifications

### Mechanical

**Form factor:** VITA 48.2 (6U) 1 inch pitch.  
**Card Guide style and Mounting:** VITA 48.2 Wedgelocks  
**Connector:** VITA 62 Compliant power connectors: P0 TYCO 6450843-6, P1 TYCO 6450849-6  
**Dimensions:** Standard 1" 6U conduction cooled form factor  
**Weight:** 2.5 Lbs.  
**Inject & Eject:** VITA 48.2 compliant inject and eject features  
**Covers:** ESD protected inputs and robust covers on both sides of the board, accommodates military two-level maintenance

### Electrical

**Input Voltage:** 46V nominal  
**Output Voltage:** 57V nominal  
**Hold-up per MIL-STD-704F:** >50 mSec Hold-up @ full load when used with PSC-6265

### Environmental

**Operating Temperature:** Per VITA 47, Class CC4, -40C to 85C  
**Non-Operating Temperature:** Per VITA 47, Class C4, -55C to 105C  
**Vibration:** Tested IAW MIL-STD-810, Method 514, Procedure 1  
**Shock:** Tested IAW MIL-STD-810, Method 516, Procedure 1  
**Humidity:** Per VITA 47, Section 4.6, 30C and 95% Non-condensing  
**Altitude:** Tested IAW MIL-STD-810, Method 500, Procedure II  
**Fungus Resistance:** Per VITA 47, Section 4.10

# Ordering Information

P/N 06-1016262

## P0 Connector Pinout

Pin Number	Connector MFR Rated Current (A)	Pin Name
P7	40	NOT USED
P6	40	NOT USED
P5	40	NOT USED
P4	40	NOT USED
P3	40	+48V IN/OUT
P2	40	+48V RTN IN/OUT
P1	40	CHASSIS GND

## Other Products from Dawn:

Card cages and enclosures for commercial, aerospace and military applications

Enclosure 3D solid model design, manufacturing and production from commercial to full-rugged conduction cooled military

Custom and Standard product PCB design, layout, production

**RuSH™** Rugged system health monitor,

Backplanes for **cPCI 2.1**, **cPCI 2.16**, **VME**, **VME64x**, **VXI**, **VXS**, **VPX**,

**CUSTOM**, Build to Print Powered Enclosures for Development,

Prototype, Production, Deployment Prototype Boards, Extender Boards,

Form Factor Extenders, Front Panels, Filler Panels, Custom Panels,

Build to Print Panels, Build to print machining, fabrication and assembly

## P1 Connector Pinout

P1 Pin Number	Connector MFR Rated Current (A)	Pin Name
P10	40	NOT USED
P9	40	NOT USED
A9	<1A	NOT USED
B9	<1A	NOT USED
C9	<1A	NOT USED
D9	<1A	NOT USED
A8	<1A	NOT USED
B8	<1A	NOT USED
C8	<1A	NOT USED
D8	<1A	NOT USED
A7	<1A	NOT USED
B7	<1A	NOT USED
C7	<1A	NOT USED
D7	<1A	NOT USED
P8	40	NOT USED
P7	40	NOT USED
A6	<1A	NOT USED
B6	<1A	NOT USED
C6	<1.5A	NOT USED
D6	<1A	NOT USED
A5	<1A	NOT USED
B5	<1A	NOT USED
C5	<1A	NOT USED
D5	<1A	NOT USED
A4	<1A	NOT USED
B4	<1A	NOT USED
C4	<1A	NOT USED
D4	<1A	NOT USED
A3	<1A	NOT USED
B3	<1.5A	NOT USED
C3	<1A	NOT USED
D3	<1A	NOT USED
P6	40	NOT USED
P5	40	NOT USED
P4	40	NOT USED
P3	40	NOT USED
A2	<1A	NOT USED
B2	<1A	NOT USED
C2	<1A	NOT USED
D2	<1A	NOT USED
A1	<1A	NOT USED
B1	<1A	UD4* Holdup Return (Dawn proprietary)
C1	<1A	UD5* Holdup Sense (Dawn proprietary)
D1	<1A	UD6* NOT USED
P2	40	NOT USED
P1	40	NOT USED