

VBB-3ALS, VBB-6ALS & VBB-10ALS

bright blue®

Dual Voltage Power Supplies

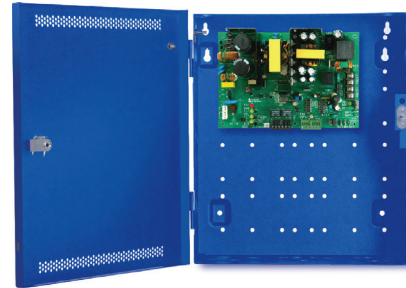
OVERVIEW

The VBB Series power supplies are efficient high performance switching power supplies with battery charger and power supervision, capable of providing two outputs, user selectable for 12 or 24VDC. One output provides continuous output power and the second is programmable to either fail-safe or fail-secure lock operation, when the on board fire alarm interface is activated.

On-board visual indicators allow for immediate installer feedback. Independent form C relay contacts are provided to report AC and system fault conditions to remote or auxiliary equipment. The VBB Series are uninterruptible power supplies when stand-by batteries are connected.

VBB power supplies are fully fault protected and feature fiberglass printed circuit boards to protect the electronics from water and other corrosive elements. High efficiency design promotes low heat generation leading to longer service life.

These power supplies are RoHs compliant, lead-free, and meet the latest state, federal and European requirements for energy efficiency.



FEATURES AND BENEFITS

User selectable voltage

- Continuous or switched

Fire Alarm Interface

- User programmable fail-safe or fail-secure operation

Battery Charging

- Independent charging circuit meets stricter UL output tolerance requirements
- Microprocessor dual rate charging restores battery sets from 4 to 40 Ah
- Automatic switch over to battery when AC fails
- Zero voltage dropout on battery transfer

Protection

- Over load protection / short circuit protection
- Over temperature protection
- AC line transient voltage protection (passing 6kV ring wave test)

Supervision

- AC Fail (form "C" contacts)
- System Fault (form "C" contacts) may be triggered by low/no battery, short to earth ground and power supply failure

Visual Indicators

- AC input
- DC1, DC2 output
- Fire alarm activation
- AC fault
- System fault
- Short to earth ground
- Reverse battery polarity

Reporting and Monitoring

- Programmable AC and System fault delays
- Fire alarm interface for egress lock control
- Cumulative AC and System fault counters (user resettable)
- Total battery service hours (user resettable)
- Total power supply run-time hours
- Network or PC reporting of all system conditions
 - Requires DL1 USB cable for PC interface
 - Requires NetLink module for WAN/LAN connection



SUPERVISED POWER SUPPLY/CHARGER SPECIFICATIONS

	VBB-3ALS	VBB-6ALS	VBB-10ALS
Batteries Supplied	Two (2) 12VDC 7AH back up batteries	Two (2) 12VDC 7AH back up batteries	Two (2) 12VDC 7AH back up batteries
AC Input Voltage	120 or 230VAC	120 or 230VAC	120 or 230VAC
AC Indicator	LED	LED	LED
DC Output Voltage	12VDC @ 6A or 24 VDC @ 3A	12VDC @ 12A or 24 VDC @ 6A	12VDC @ 20A or 24 VDC @ 10A
Module Dimensions	4.0"L x 6.0"W x 2.5"H	5.5"L x 8.25"W x 2.5"H	5.5"L x 8.25"W x 2.5"H
Input Power (max)	83 Watts	170 Watts	282 Watts
Outputs Power	75 Watts	150 Watts	250 Watts
Efficiency	85%	88%	87%
Battery Charge Capacity	40 Amp Hours	80 Amp Hours	80 Amp Hours
Default Charge Current	1 Amps	2 Amps	2 Amps
BTU Rating	33 BTU/Hr	66 BTU/Hr	109 BTU/Hr
Enclosure Dimensions	14"L x 12"W x 4.5"D	14"L x 12"W x 4.5"D	14"L x 12"W x 4.5"D
Operating Temperature Range	0 - 49°C (32 - 120°F)	0 - 49°C (32 - 120°F)	0 - 49°C (32 - 120°F)
Weight with Enclosure	11 lbs (4.99 kg)	11.5 lbs (5.22 kg)	11.5 lbs (5.22 kg)
Approvals	UL listed for UL 294 Access Control and more	UL listed for UL 294 Access Control and more	UL listed for UL 294 Access Control is Pending

OPTION ACCESSORIES

PDD-FT DC FIRE TRANSFER RELAY MODULE

SPECIFICATIONS:

- Non latching or latching mode
- Universal 11-29VDC Operation
- Reverse polarity protected
- Normally on & normally off Output
- Output LED indicates condition
- Form C contacts indicates trigger status
- 12A transfer relay contacts
- Outputs can be triggered with:
 1. N/O or N/C switch with supervised EOL
 2. N/C switch with over ride
 3. N/C switch with AUX-IN auxiliary
 4. Ground on any trigger input when green jumper is enabled
- RoHS Lead Free
- Module Dimensions: 2.23"W x 3.75"L x .8"H
- Ambient Temperature in Enclosure: -4°F to 95°F
- Humidity: 95% RH Non Condensing
- Weight: 2.2oz
- UL listed for UL 294 Access Control and more

DCPM-1 ADJUSTABLE DC OUTPUT VOLTAGE MODULE

SPECIFICATIONS:

- 6-26VDC adjustable DC output voltage
- Low voltage AC or DC Input
- Up to 1A continuous supply current
- Clean Linear output
- Electronically protected against over current and temperature
- Module Dimensions: 1.1"W x 2L" x 2.38"H
- Ambient Temperature in Enclosure: -4°F to 95°F
- Humidity: 95% RH Non Condensing

ORDERING INFORMATION

VBB-3ALS	75W, 6A/12VDC or 3A/24VDC Switching Power Supply with Charger
VBB-6ALS	150W, 12A/12VDC or 6A/24VDC Switching Power Supply with Charger
VBB-10ALS	250W, 20A/12VDC or 10A/24VDC Switching Power Supply with Charger

ACCESSORIES

PDD-FT	DC Fire Transfer Relay Module
DCPM-1	Adjustable DC Output Voltage Module
PDM-4	Low Voltage 4 Output Power Distribution Module
PDM-8	Low Voltage 8 Output Power Distribution Module
PDM-9	Low Voltage 9 Output Power Distribution Module

VANDERBILT