

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

**bright blue®**

*Dual Voltage Power Supplies*

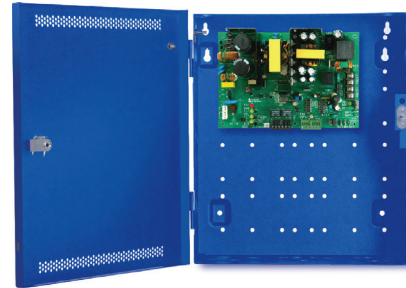
### OVERVIEW

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
<b>Batteries Supplied</b>	Two (2) 12VDC 7AH back up batteries	Two (2) 12VDC 7AH back up batteries	Two (2) 12VDC 7AH back up batteries
<b>AC Input Voltage</b>	120 or 230VAC	120 or 230VAC	120 or 230VAC
<b>AC Indicator</b>	LED	LED	LED
<b>DC Output Voltage</b>	12VDC @ 6A or 24 VDC @ 3A	12VDC @ 12A or 24 VDC @ 6A	12VDC @ 20A or 24 VDC @ 10A
<b>Module Dimensions</b>	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
<b>Input Power (max)</b>	83 Watts	170 Watts	282 Watts
<b>Outputs Power</b>	75 Watts	150 Watts	250 Watts
<b>Efficiency</b>	85%	88%	87%
<b>Battery Charge Capacity</b>	40 Amp Hours	80 Amp Hours	80 Amp Hours
<b>Default Charge Current</b>	1 Amps	2 Amps	2 Amps
<b>BTU Rating</b>	33 BTU/Hr	66 BTU/Hr	109 BTU/Hr
<b>Enclosure Dimensions</b>	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
<b>Operating Temperature Range</b>	0 - 49°C (32 - 120°F)	0 - 49°C (32 - 120°F)	0 - 49°C (32 - 120°F)
<b>Weight with Enclosure</b>	11 lbs (4.99 kg)	11.5 lbs (5.22 kg)	11.5 lbs (5.22 kg)
<b>Approvals</b>	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

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

#### ACCESSORIES

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

**VANDERBILT**