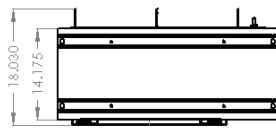


ANALYTIC SYSTEMS

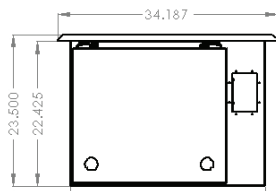
Power Conversion Solutions

TRANSIT POWER SUPPLY /CHARGER

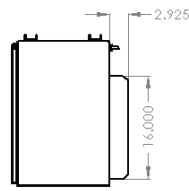
**MODEL
BCA-PWS-480-36**



TOP VIEW



FRONT VIEW



RIGHT VIEW

Description

Developed for Metra, the BCA-PWS-480-36 is a 480V 3 phase input UPS combining both an AC to DC power supply and a separate battery charger that provides regulated 32VDC power to the voltage power system. In case of a failure, the low voltage systems are maintained from the batteries.

The modular construction combined with the microprocessor allows for future customization and freedom to charge more than just the current battery. The firmware can be updated using a flash drive via the isolated serial port and the unit's computer control enables it to be firmware modified to charge a variety of different battery chemistries and be applied to other high voltage applications (i.e. Military, Industrial).

The TRANSIT Power Supply/Charger has event data logging through a standard SD card slot (2GB card installed - max capacity is 32GB) with typical 10 year capability. Data logging tracks 1) normal online events, 2) error indications and 3) faults requiring repair.

Benefits

- Rugged LED daylight visible display allows system diagnostics without a laptop
- 93% efficient
- Modular construction
- Simple to install
- Easy opening/closing latch with gas cylinders to keep cover open
- Flexibility in battery chemistry choice
- Fully customizable (i.e. Mounting, enclosure)
- Ground fault

Design Features

- -40°C to +70°C operating temperature
- Load support redundancy in case of failure
- Most rugged components/parts to provide greatest reliability in wide temperature and high vibration under the rail environment
- Event data logging with SD card data storage
- SD card slot with a 2 GB card installed
- Convection cooled
- 0.90 power factor (passive solution)
- NEMA 4x/IP66 enclosure
- Temperature sensor included (temperature compensated charging)
- Optional redundant battery charging
- Software provided to upgrade firmware without removing unit
- 2 independent serial ports – RS232 for diagnostics and data logging

Applications

- Rail
- Transit
- Military
- Industrial
- OEM Applications
- Other rugged environments

An ISO9001 and AS9100 Registered Company Battery Chargers • Inverters • Power Supplies • Voltage Converters

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www.analysystems.com

TRANSIT POWER SUPPLY /CHARGER

MODEL BCA-PWS-480-36

Electrical (Input)

Input Voltage	480Vac 3 phase
Actual (Vdc)	432V-528V
Input Amps (max)	4Ax2
Input Breaker	10Ax2
Input Frequency	47Hz-63Hz
Input Power Factor	>0.90

Electrical (Output)

Output Nominal (op)	32V
Output Voltage (Max)	41.5V (47V in commissioning charge mode)
Absorption Voltage (VDC)	38.125V
Charging Amps	60A
Battery Banks	NiCd (other battery chemistries available)
Commissioning Charge Voltage (VDC)	47.5V
Temperature Compensation Coefficient	-3mV/0C per cell
Duty Cycle	100%
Efficiency	>92%
Regulation (Line & Load)	<10mV; <100mV

Environment Specification

Operating Temp. Range	-400C to +550C (ambient) de-rated at +850C
Storage Temp. Range	-400C to +1050C Wide temperature storage range
Humidity	0-95% Relative Humidity non-condensing
Isolation	>3KV
Vibration	3G in both directions of all three planes, with sine wave applied randomly from 0-50 Hz, and the displacement between 0 to 0.2 inch.

Mechanical Specification

Length	34.187 in/868mm
Width	18.030 in/458mm
Height	23.500 in/597mm
Clearance	21.000 in/534mm
Material	Stainless Steel
Finish	Powder coat white
Weight	270 lbs/122.5kg (approx.)
Warranty	2 Years

Technical Specification

Switch Time (AC to Battery)	Max 20 ms (typ 10ms)
Switch Time (AC to Battery)	Max 20 ms (typ no voltage drop)
SD Data logging	Standard SD Slot with 2 GB card installed
Data logging	SD card (data recovery is possible even if control board is damaged)
LED Display	Voltage/current, faults/errors (2x3 digits, 7seg LCD; 13LED)

Note: Specifications are subject to change without notice.



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