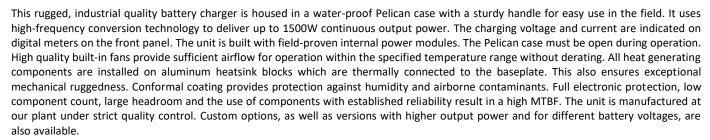
# 1500W, Portable Battery Charger for Field Applications BCP 1K5-PEL

- Rugged industrial quality
- Field-proven design
- Fan cooled
- Full electronic protection
- Input breaker ON/OFF
- Output breaker/crowbar diode
- · Volt and Amp meter
- Splash-proof portable Pelican case



# **SPECIFICATIONS**

#### Input Voltage

180Vac to 264Vac Universal input on request 47 -63Hz Input current 10Arms max Power Factor is better than 0.97 at full load for the entire input range. Meets EN61000-3-2 Consult factory for other voltages

#### Input Protection

Inrush current limiting
Varistor
Input breaker also serves as
ON/OFF switch
Lower voltage than the specified
minimum input will not damage
the unit

#### Input Isolation

2250Vdc input to chassis 4300Vdc input to output 8mm spacing 500Vdc output to chassis

#### Standards

Designed to meet EN 62368 and related standards

#### EMI

EN 55032 Class A with margins

Switching Frequency 80kHz ±5kHz

#### **Charging Current and Voltage**

Any requested voltage in the 20 - 400V range 1500W continuous Output is floating, either terminal can be grounded

# **Output Separation Diode**

Installed internally

#### Line Regulation

±1% for open circuit voltage

## **Output Ripple/Noise**

Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW)

#### **Overload Protection**

Rectangular current limiting
Thermal shut-down with automatic
recovery in case of insufficient
cooling
Output crowbar diode
Output breaker for protection
against accidental reverse battery
connection

# Note: Battery must be fused externally, directly at the battery

# **Output Overvoltage Protection**

Double regulator loop. Second regulator loop, completely stable and independent of main regulator loop.

## Efficiency

Typically over 85% at full load

#### **Operating Temperature**

0°C to +50°C without de-rating. Extended temperature range available on request

#### Temperature Drift

0.03% per °C over operating temperature range

#### Cooling

Two high quality built-in fans

#### **Environmental Protection**

Heavy ruggedizing Conformal coating Splash-proof Pelican case

# Shock/Vibration

IEC 61371 Cat 1 A&B

# Humidity

5 - 95% non-condensing

# MTBF

100,000 hours at 45°C (fans not included)
Demonstrated MTBF significantly higher

#### **Indicators**

Analog voltmeter and ammeter on the front-panel (upper surface).

#### **Control Input**

None

# **Alarm Outputs**

None

# Package/Dimensions (L x W x D)

Pelican Case #1520 50 x 40 x 19 cm 19.8" x 15.8" x 7.4"

#### Weight

12kg. (26lbs).

# Connections

AC-input: IEC receptacle for 230V input version
Output <130V: Anderson
Output >130V: AMP CPC or TBD

# **RoHS Compliance**

Compliant

#### Warranty

Two years subject to application within good engineering practice Contamination related failures and shipping cost excluded

ABSOPULSE power supplies are designed and built to customer requirements. The specifications on this data sheet are generic guidelines only and are subject to change

OEM of industrial and railway quality DC-DC converters, AC-DC power supplies and battery chargers, DC-AC sine-wave inverters, phase and frequency converters, DC-output UPS systems and complete power systems in 19" and 23" racks since 1982. Custom or standard. ABSOPULSE is a BABT-approved Facility.



ABSOPULSE ELECTRONICS LTD

110 Walgreen Road, Ottawa. Ontario | KOA 1LO | CANADA Tel: +1-613-836-3511 | Fax: +1-613-836-7488 https://absopulse.com/contact | https://www.absopulse.com/

June 11, 2025/TS/CL

Made in Canada