

**MODEL:- IPS-BC-360W**  
**Transtech Battery Charger / Power Supply**  
**360Watt with Universal input 85-265Vac 12vdc + 24vdc 10Amp Output**

## GENERAL DESCRIPTION

The IPS-BC-360W is a uniquely designed combined industrial power supply / battery charger, designed to supply instrument installations with both 12v and 24v and charge sealed lead-acid backup batteries.

**To comply with the requirements of EN61000 for electronic equipment consuming more than 75W, the input stage is Power Factor Corrected.**

The IPS-BC-360W may be operated without batteries, in which case the 12V and 24V outputs will approach 13.8V and 27.6V respectively.

When the IPS-BC-360W is operated as a battery charger the unique control circuitry prevents either battery being overcharged (boiled). This unique feature can either sink or source current, rising or falling automatically depending upon the state of charge of either battery. In the event of loss of ACV, or an internal fault an alarm contact will close.



## FEATURES

- ◆ Power Factor Correcting (automatic)
- ◆ Unique “automatic sink or source” charging of batteries.
- ◆ Auto disconnect on reverse battery volts
- ◆ Voltage measurement nominally 0.3%
- ◆ Current Limited Outputs
- ◆ Plug Off Terminals with engraved numbers
- ◆ Monitoring LED Panel for :-
- ◆ ACV
- ◆ DCV
- ◆ Fuse 1
- ◆ Fuse 2
- ◆ ALARM
- ◆ TEST
- ◆ FAN
- ◆ Over Temperature
- ◆ Complies with EN61000
- ◆ Remote Test Input with Contact output (Forces a low VDC to test battery condition)
- ◆ Supply Loss Alarm Output
- ◆ C-tick / CE marking (Tested to & Passed CSPIR 11)

## TECHNICAL DATA

<b>Power Supply (Input)</b>	85 – 265VAC /120 - 390VDC
Frequency	40 - 60Hz
Power	< 465VA
<b>Power Factor correcting, controlled Start-Up Input Stage (Designed to requirements of EN61000). Two Stage EMI line filter and transient protection is standard.</b>	
<b>Inputs</b>	
1. The test input switches load to the batteries, by monitoring the battery voltage the health of batteries can be determined from a remote location.	
2. An NTC with lead is included to allow for Battery Temperature Monitoring and Compensation.	
<b>Outputs (Operated as Power Supply)</b>	
Output 1 (< 13 amps)	27.6V nominal (no Battery)
Output 2 (< 10 amps)	13.8V nominal (no Battery)
Combined Ave Output	≤ 365W at 70C (99% DF)
Combined Peak Output	≤ 400W (3secs. & 1% DF)
<b>Outputs (Operated as Battery Charger)</b>	
Battery '1'	Limited to 13.8V nominal
Battery '2'	Limited to 13.8V nominal
Charge Temp. Coeff.	-4mV/C per cell.
Charge Current:	2 to 10A Factory Set (suitable for from 7AH to >100AH batteries).
Deep discharge	Automatic load disconnect.
<b>Alarm Outputs</b>	
AL1 = Battery or Internal Fault	
AL2 = Supply Failure	

## GENERAL SPECIFICATION

Efficiency	>83%
PFC (required)	to EN61000.
Emissions	to EN61000
Immunity ESD	to EN61000
Immunity RF fields	to EN61000
Isolation	(Input/Output) 4kV rms (VDE 0550 and BS4 15 Class 2)
Operating Temp	0 to 70 Deg C
Storage Temp	-25 to 85 Deg C
Reliability (estimated)	50,000 hours at 25C as per MIL-HDBK-217 or equiv.
Mounting Style	DIN mount
Terminals	Self-opening 5mm/12AWG (plug on/off)
Housing Material	Mild Steel & Polycarbonate
Ventilation	Natural
Dimensions	240mmX145mmX140mm
Weight	1.6 kg

