



**UNIVERSAL INPUT HARMONIC CORRECTION(PFC)
AC-DC INTELLIGENT BATTERY CHARGER
2000 WATTS SINGLE OUTPUT HIBA2000 SERIES**



FEATURES:

- MICROPROCESSOR CONTROLLED POWER MANAGEMENT
- 2 STAGE CHARGING
- WIDE OPERATING TEMPERATURE
- REVERSE POLARITY/UNDER VOLTAGE/ OVER VOLTAGE/OVER TEMP. PROTECTION
- LED LOADING INDICATOR FOR POWER & CHARGER STATUS
- CANBus/RS485/RS422 INTERFACE

SPECIFICATION

INPUT SPECIFICATION

Input Voltage: 90-264Vac.
Power Factor: Meet Harmonic Correction IEC 61000-3-2.
Power Factor typ. 0.98.
Input Connector: 3 prong LT-262B or YP16L 20A/250V.
Input Frequency: 47-63Hz.
Inrush Current: 15A(rms) at 230Vac;
40A (peak) at 230Vac.
Input Current: Typ. 14.8A at 115Vac / 9.6A at 230Vac.
Under Voltage Protection: Available.
Dielectric Withstand: Meet IEC 60950-1.
EMI: Meet CISPR EN55022A/CISPR EN55014-1.
Hold-up Time: Typ. 25ms at 115Vac/ 20mS at 230Vac.
Remote ON/OFF: Available.
Over Temp. Protection (OTP): By NTC, thermostat &
Temp. sensor
Leakage Current: Typ. 0.82mA at 230Vac.
No-Load Power: 15.1Watt at 115Vac/ 13.3Watt at 230Vac.

OUTPUT SPECIFICATION

Output Voltage: See Ratings Chart.
Output Current: See Ratings Chart.
Output Power: 2000W.
Output Connector: PB-50(50A/600V).
Line Regulation: Typ. $\pm 0.5\%$.
Noise & Ripple: Typ. 1% peak-peak.
Cut-off Current: Software programming.
Over Voltage Protection (OVP): Built-in.
Current Sharing: Available.
Output Reverse polarity Protection: Available.
Over Current Protection (OCP): Software programming.
Charging Indicator: Green means Battery Full.
Red means Fail.
Green/Red means Charring.
Overload Protection (OLP): Fully protected against output
overload or short circuit.

GENERAL SPECIFICATION

Efficiency: 88.5% at 230Vac.
Switching Frequency: 55KHz.
Circuit Topology: Full-bridge circuit.
Safety Standard: Meet IEC 60950-1/EN60335-1& EN60335-2-29
Class I.
Battery Type: Lead-acid/ Ultra-capacitor/Li-Ion/LiFePO4.
Charge Mode: CV+CC.
CANBus/RS485/RS422 Interface.

Operating Temperature: -20 °C to +60 °C de-rate linearly
from 100% power at +50 °C
to 60% power at +60 °C.
(Refer to de-rating chart).
Storage Temperature: -40°C to +85 °C.
Cooling: Built-in dual internal DC ball bearing fans
with smart fan speed control.
Power Density: 7.2 Watts/ cubic inch.

NOTE: (1)All measurement are at nominal input, full load and +25°C unless otherwise specifications.
(2)Due to requests in market and advances in technology, specifications subject to change without notification.
(3)Derating is needed under low input voltage. Please refer to the derating chart.

OUTPUT VOLTAGE / CURRENT RATINGS CHART

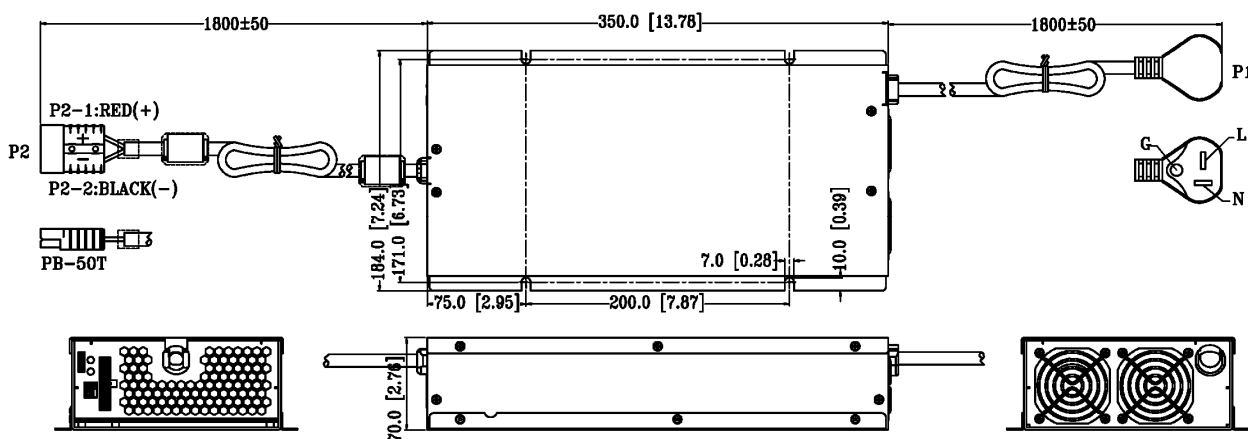
SINGLE OUTPUT

MODEL NO.	Min.	Typ.	Volt.	Max.
HIBA2000-S540370	0A	37.0A	54.0V	37.0A
HIBA2000-S584343	0A	34.3A	58.4V	34.3A
HIBA2000-S828242	0A	24.2A	82.8V	24.2A

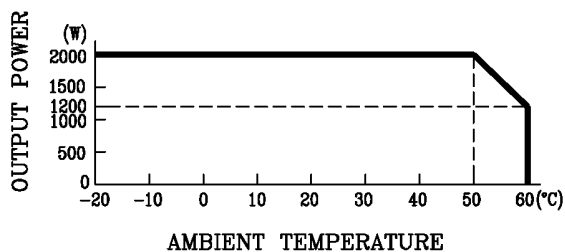
Symbol: "★" OVP built-in. "≡" Load Sharing. "⊙" Installed with Or-ing diode.

MECHANICAL DIMENSIONS: MM [INCHES]

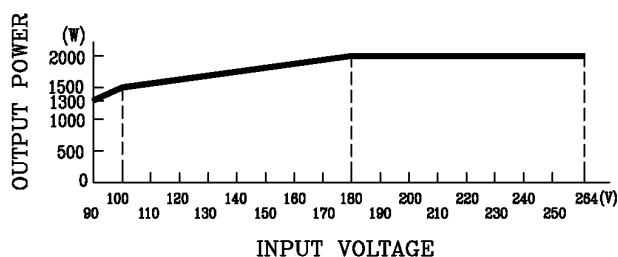
WEIGHT: 4.2kgs (9.26lb)



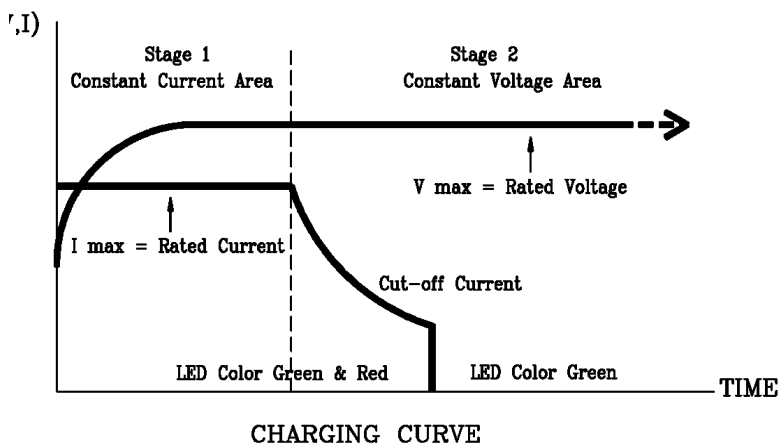
DERATING CHART



(When I/P ≥ 180VAC)



CHARGING CURVE



INPUT & OUTPUT CONNECTORS PIN ASSIGNMENT

ASSIGNMENT	PIN NO.
AC-LINE	P1-L
AC-NEUTRAL	P1-N
AC-GROUND	P1-G
VO1	P2-1
DC COM	P2-2