

ExigeNT 720

Sealed Battery Chargers

**720W
Output
Power**
24V-30A**



The ExigeNT 720 series are high frequency resonant IP67 / NEMA6 waterproof chargers. They incorporate the latest electronic technology developments, resulting in chargers capable of operating without issues in the most demanding applications. Electronics are impervious to water, even under high pressure spray, and also dust and other environmental debris. All internal components are extremely well protected against shock and vibration.



The aluminum housing has fins for heat dissipation with an accessible IP67 cooling fan which ensures the smallest possible footprint without sacrificing performance.

These chargers are suitable for a wide range of applications for recharging deep cycle Flooded Lead-Acid, GEL and AGM batteries. Users can select from up to 5 different pre-programmed charging curves, using our infrared programmer, to suit a variety of lead-acid battery brands and types. Special versions are available for LiFePO4 and other lithium chemistries.

For onboard applications, bulkhead or wall mounting the rubber feet are easily removed so the unit can be secured with base mounting holes and/or slotted holes. An inhibit relay pigtail with sealed connector is fitted for N/C interlock operation and a mating 1m. long cable/connector assembly is supplied. The locking AC connector ensures no loss of power to the charger while in use.

Thermal compensation of charging voltage, via remote sensor, allows use in any hot, warm or cold environment without negatively affecting charging performance. This ensures proper recharging of batteries in a wide variety of applications and locations.



Applications

Scissor Lifts and Aerial Work Platforms, Sweepers, Power Stackers and Pallet Trucks, Tugs, Industrial Robots, Agricultural Equipment, and more.

Key Features

- IP67 / NEMA6 fully sealed enclosure
- Thermal compensation
- Efficiency > 92%
- Power factor ≥ 0.99
- Worldwide AC input
- Reverse polarity & short circuit protection
- Burnout protection
- Single multi-coloured LED for charging status and errors
- Infrared charging curve selection
- cTÜVus Approved

BTi

BRIERLY TECHNOLOGIES INC.

Model	Output Voltage	Current Output (Max.)	Battery Size Range in Ah (C20) 10-12 Hr Recharge	Battery Size Range in Ah (C5) 10-12 Hr Recharge	Accessories Included
EXT2425 5.5 lbs / 2.5 kg	24V	25A	180 - 280Ah	180 - 220Ah	Infrared programmer 1m. inhibit cable AC cordset

Dimensions Housing: 10.57 x 6.14 x 3.09" / 268.5 x 156 x 78.5mm Handle (h): 1.5" / 39.0mm



Technical Characteristics

AC-DC Conversion Technology

High frequency

LLC resonant converter

ZVS switching of MOSFETs

High efficiency and power density

AC Input

AC Input voltage range: 85 - 265V AC, 50-60Hz

AC Nominal voltage input: 100 - 240VAC

AC current input: 8.5A max.

AC Power factor: > 0.99

AC Input connector: IEC 320 / C13

DC Output

Maximum DC output voltage: 34V

Maximum DC output current: 30A

Maximum DC output power: 720W

Temperature compensation: 0.005mV/cell/0C

Environmental

Thermal protection against
overheating

Power Derating: 1.5A/°C., 40°C - 55°C

Operating temperature:
-35°C to +65°C (-30°F to 149°F)

Regulatory and Compliance:

TÜV Approved

Complies with UL 1012:2010 R4.16 and CAN/CSA-C22.2 No. 107.2-01 + GI1 + GI2

Complies with FCC Part 15B

Low Voltage Directive 2014/35/EU, Electromagnetic Compatibility 2014/30/EU

EN 55014-1 :2017, EN 55014-2:2015, EN 61000-3-2:2014, EN 61000-3-3:2013,

EN 60335-1 :2012+A 11:2014+A 13:2017, EN 60335-2-29:2004/A 11 :2018, EN 62233:2008

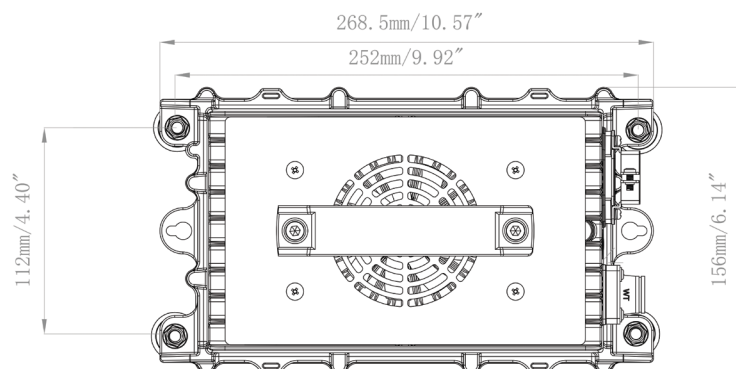
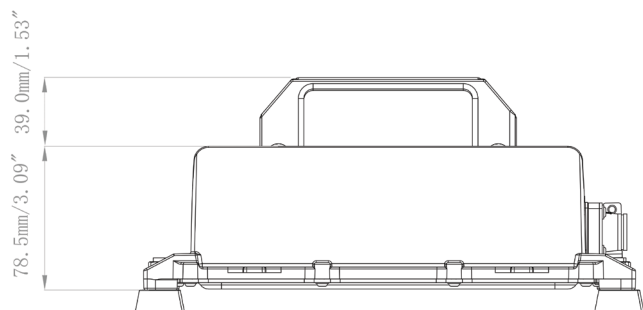
RoHS Compliant



* Standard cord set has NEMA5-15P plug. Other cord sets available on request. Standard DC connector is SB50 red + red handle. Other DC connectors are available on request. Unit is fitted with 6'6"/2m DC cable and a 6'6"/2m AC cable.

The ExigeNT 720 is also available in 12V-25A, 36V-16A, 48V-12A, 60V-10A or 72V-8A output versions on special order.

Mechanical Drawings



Specifications subject to change without notice.

** Current (A) rating reflects common industry practice where maximum power output (W) is divided by nominal battery pack voltage (V). Bulk charge rates are lower and are shown in the model table above. Bulk current outputs are rounded to whole numbers.