

Custom PDUs for any Application

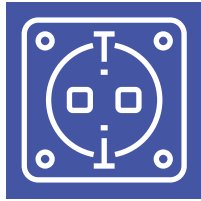
AC or DC | Any Frequency | Any Voltage
No Minimum Order | Assembled in the USA



MIL SPEC



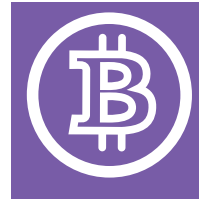
SHIPBOARD



INDUSTRIAL



COMMERCIAL



CRYPTO



RAIL



DATACENTER

Collaborative Effort

Every custom PDU design from Raptor Power Systems is a collaborative effort between our experienced power engineers and our valued clients. The most important aspect of creating a custom PDU is understanding its application and environment. By working closely to understand client needs we ensure the highest reliability design and function.

Identify Core Specifications

Getting a custom PDU's initial specification set requires consideration of the following technology groups; power conversion, power conditioning, control and monitoring, and mechanical. Our power engineers assist clients in selecting core specifications within each group to build a full requirement.

Component Selection

After all core specifications have been identified, the selection of components will begin. Sometimes clients already know exactly which components they wish to utilize in the design, other times Raptor Power Systems selects components based cost, performance, application, product life cycle, and stock availability.

Enclosure Selection

Our doctorate level engineers work closely with our clients to provide the best possible enclosure design for their application.



01.

Input Circuit Protection

UL 489 input circuit breakers in AC or DC and 1, 2 or 3 pole configurations.

02.

Output Circuit Protection

UL 1077 output circuit breakers in AC or DC and 1, 2 or 3 pole configurations.

04.

LCD Meters

Voltage, current, and temperature meters.

05.

EPO

Emergency power off, on PDU or external.

06.

Rack Handles

Rugged handles assist in maintenance and installation of PDU.

07.

Input Power Plug

Power plug in NEMA, IEC, CSA, MIL SPEC, or Industrail configurations.

08.

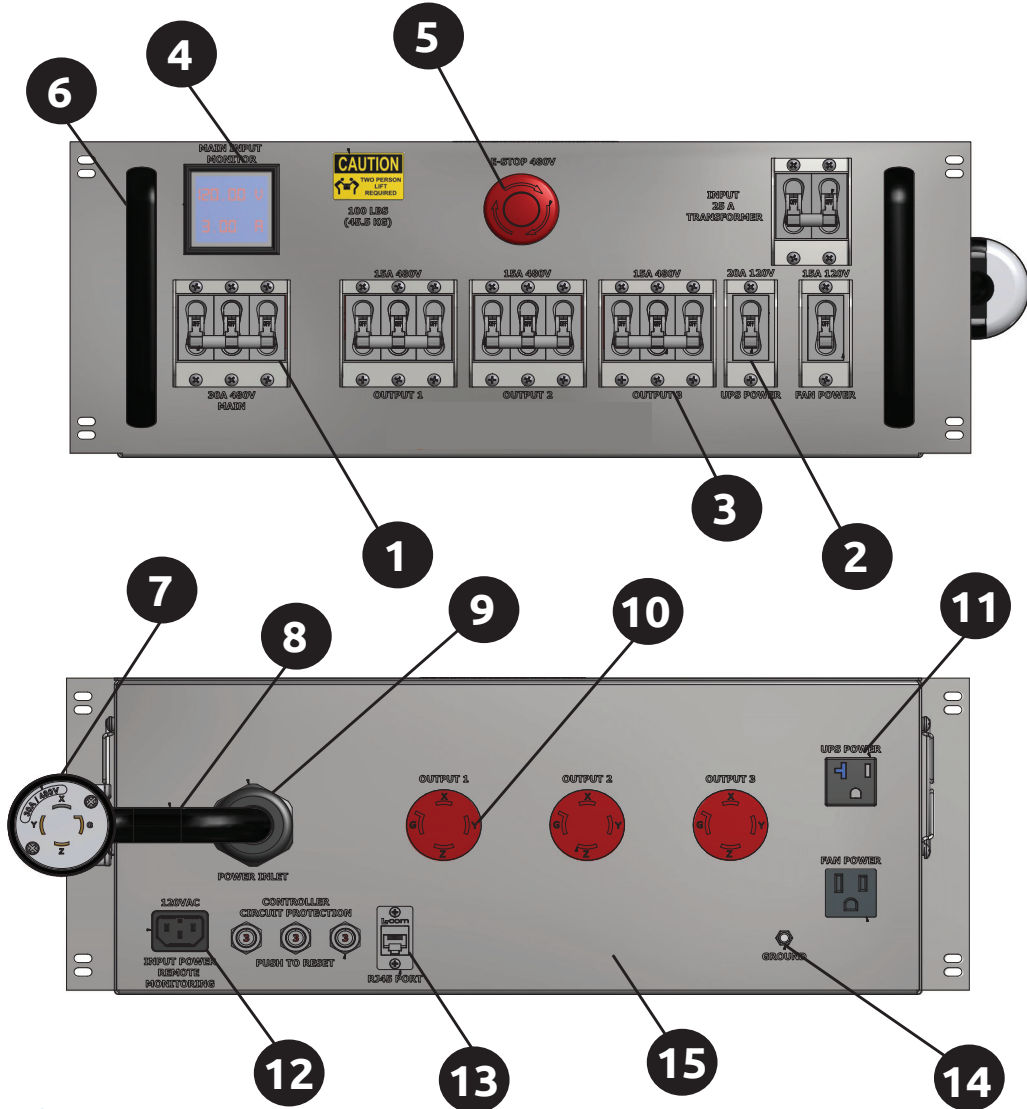
Input Power Cord

SJOW, SOOW, THHN, MTW, or low-smoke halogen free.

09.

Strain Relief

Cord grips/strain reliefs for all power cord types.



10.

Output Connectors

NEMA, IEC, CSA, MIL SPEC, or industrial connectors for any application.

11.

AUX Outputs

Utility outputs for maintenance and supplemental voltage configurations.

12.

Remote Power

Seperate power input for remote control and monitoring

13.

Communication Port

Connection port for remote control and monitoring software.

14.

Ground Stud

TVSS or MIL SPEC external ground stud.

15.

Enclosure

Rack, vertical mount, wall mount, table top, free standing, EMI shielded, or portable.



01.

Internal COM Port

Panel to controller internal connection.

02.

Remote Switches

Control switches via remote and/or internal signals.

03.

RC Controller

Raptor Connect controller board doubles as a webserver for internal software hosting.

04.

Current Transformers

Measure current on the input or outputs up to 500A per measurement.

05.

Power Supply

Add 5VDC or 12VDC for controller, EPO, or relay power.

06.

Relay Card

Mechanical or solid state relays to control outputs, EPO, and remote signals.

07.

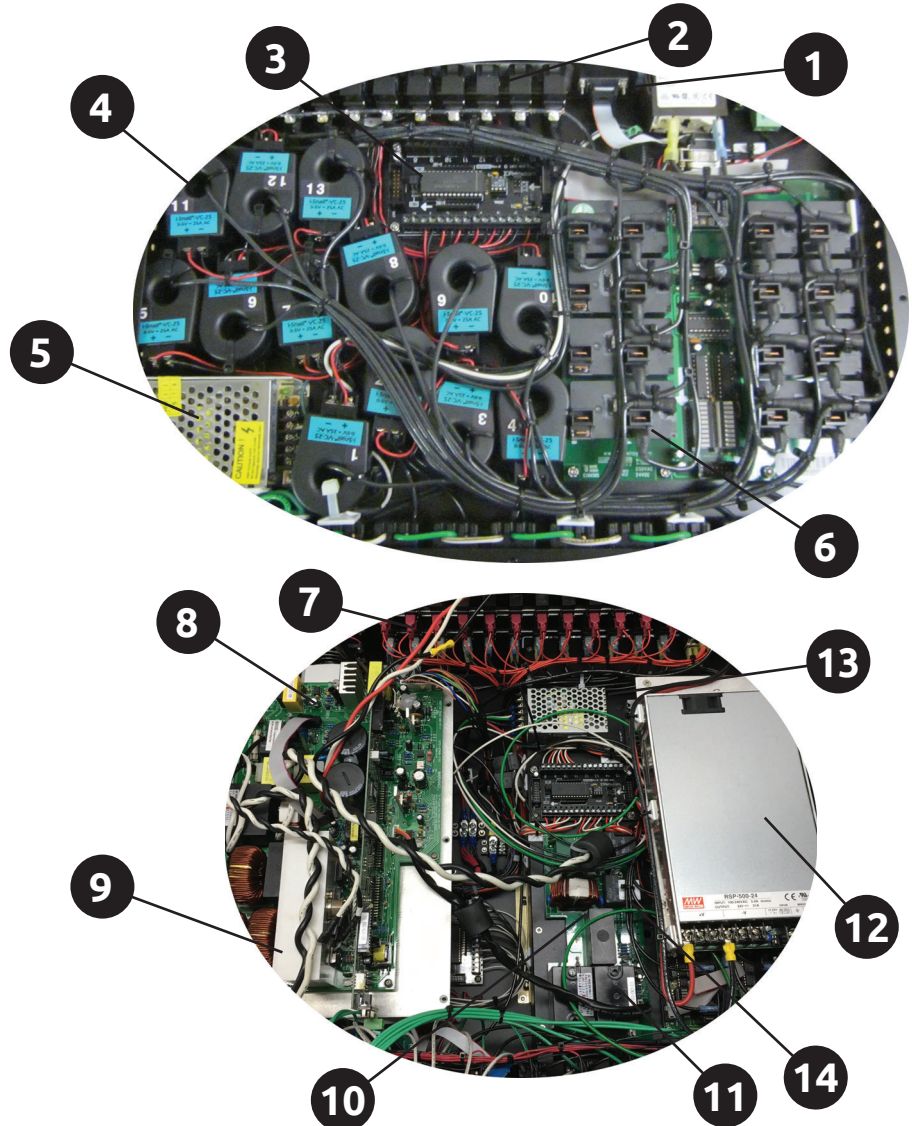
Machine Crimps

High reliability crimps created with automated machining for precision and consistency.

08.

Integrated UPS

internal UPS for critical load backup and controlled shut-down.



09.

Surge Suppression

MOV and surge suppression modules to protect critical loads.

10.

Voltage Conversion

Change voltage via transformer or digital double conversion.

11.

Sequencing Circuitry

Auto Sequence outputs on and off based on power conditions and for load shedding.

12.

Mains Power Supply

Switch power from AC to DC to power DC loads from an AC source.

13.

EMI Filter

EMI/FRI filtering for clean power output.

14.

EPO Circuitry

Emergency power off and daisy chain control circuitry.

