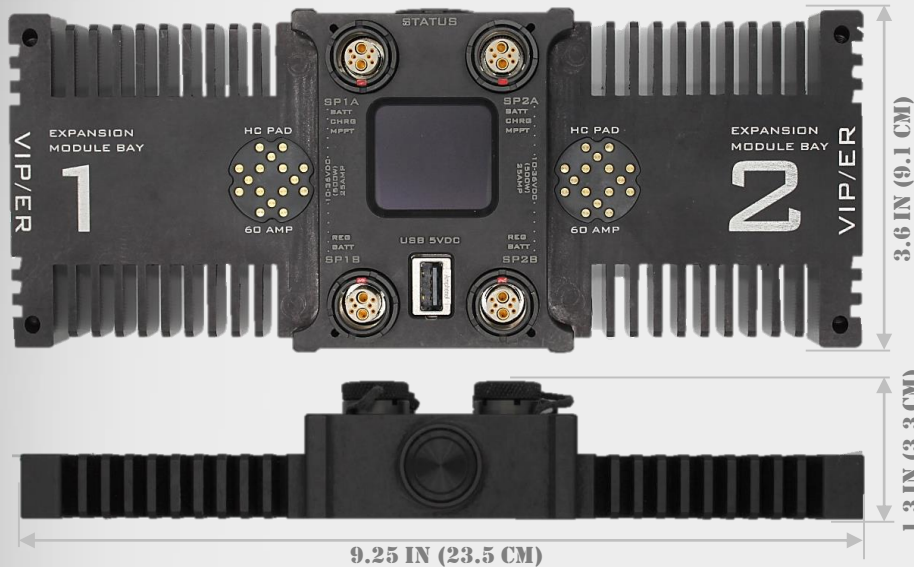




### VIRIDEON INTELLIGENT POWER / ENERGY ROUTER GEN3 (VIP/ER) VIP-VP-X2P4



VIP/ER GEN 3 is an autonomous energy routing & conditioning platform that scavenges power from multiple sources and delivers it back as clean, reliable power in any form needed.

#### DESIGN FEATURES

- Intelligent Energy Router
- 98% Efficient Regulated Conversion
- Independent of a Battery Source (multiple battery options)
- Routes power through;

##### (4) Bi-directional Smart Ports

Regulated & Unregulated Output Power

AC, DC, Solar & Battery Input Power

MPPT Solar Charging

##### (2) Expansion Module Bays

##### (1) Energy Manager Port

- Real Time Analytics Display
- Redundant Safety Layers
- USB Fast Charging Port
- Modular & Scalable
- Small and Lightweight
- Durable Ruggedized Design
- Passively Cooled (No Fans/ Filters)

#### SAFETY FEATURES

- Protection Against System;
  - Overvoltage
  - Under-voltage
  - Over Current
  - Short Circuit
- Real-Time Software Monitoring and System Warnings

#### SPECIFICATIONS

- Dims: 3.6 in x 1.3 in x 9.3 in
- Weight: ~2.5 lbs. (1.1 kg)
- Rugged Aluminum Housing
- Black Mil-Spec Anodized
- Tan Powder Coat (Optional)
- Designed to meet IP68
- Designed to meet MIL-STD 810G

#### COMMUNICATION

- CANBUS

#### BUILDING BLOCKS

Compatible with;

- Smart Cables & Adapters
- Expansion Modules
- Energy Managers
- Energy Storage

*\*Building Blocks Sold Separately*

#### ORDER PART NO.

- VIR-VP-X2P4-00-B-000  
Black Color Housing
- VIR-VP-X2P4-00-T-000  
Tan Color Housing

**USER INTERFACE CAPABILITIES**
**1 STATUS DISPLAY**

- 1.5in OLED Screen
- Black Out Mode for Night Ops
- Impact Resistance
- No Back Lighting
- Solid State - Low Power
- Viewing Angle > 160°
- Customizable Screens

**2 EXPANSION MODULE BAYS (2 EA)**

- High Capacity Contact Pads
- Bidirectional
- Voltage - Input / Output
  - 10-36V DC (500W Regulated)
  - 10-50V, 60 Amp (Unregulated)
- CANBUS

**3 THERMAL HEAT FINS**

- Dissipate heat from Internal Solid State components.
- Passively Cooled, No Fans or Filters.

**4 USB FAST CHARGING PORT**

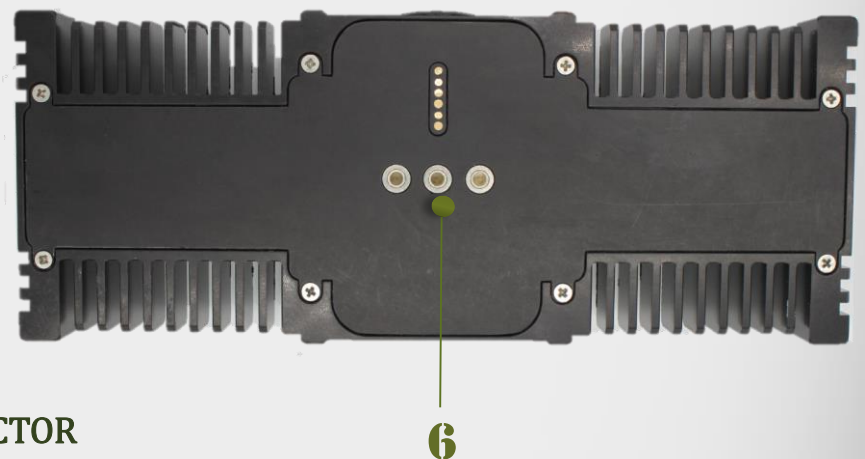
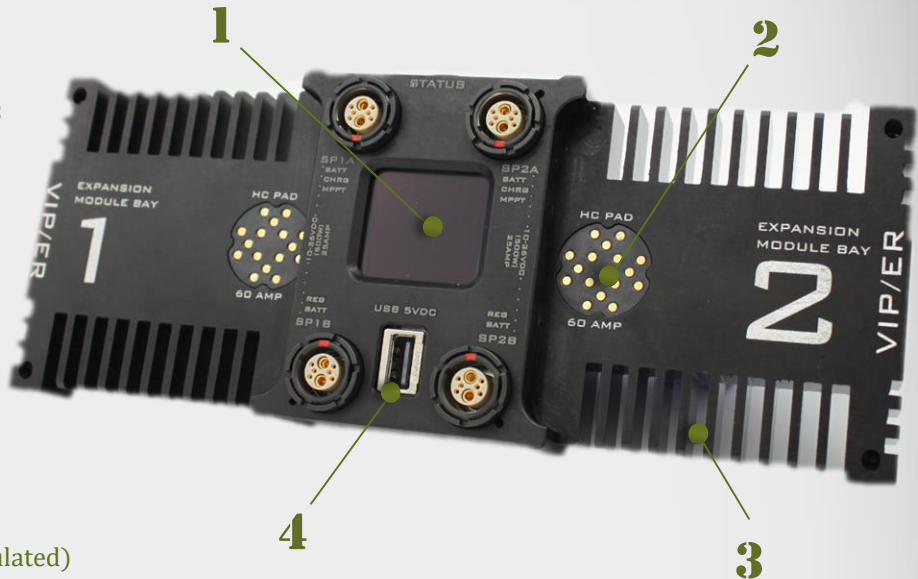
- Voltage - Output
  - 5V DC (3.5 Amps)
- USB Charger (Phones / Devices)

**5 STATUS BUTTON**

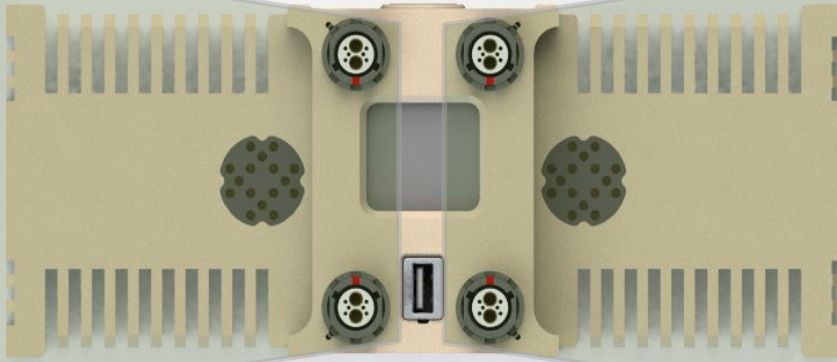
- Solid State Piezo Switch
- Long lifetime: > 20 million actuations

**6 ENERGY MANAGER CONNECTOR**

- Bidirectional
- Voltage - Input / Output
  - 10-36V DC
  - 60 Amp


**FOR MORE INFORMATION**

www.copasat.com  
 sales@copasat.com  
 727.325.1426

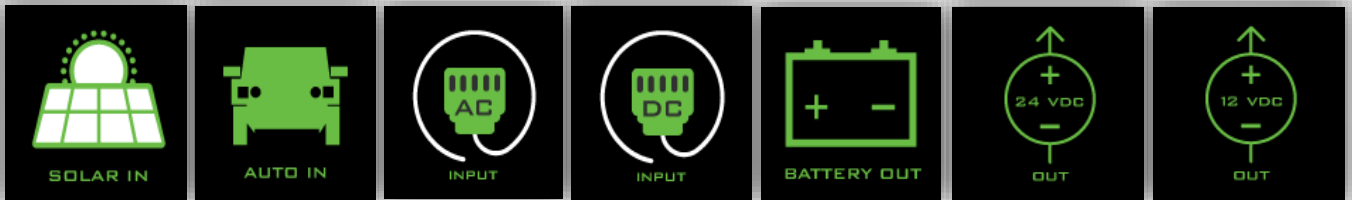
**UNIVERSAL SMART PORTS (SP)**
**BATTERY OUTPUT / CHARGING / MPPT**
**SP 1A      SP 2A**


- Bidirectional
- Voltage - Input / Output (combined)
  - 10-36V DC (500W Regulated)
  - 25 Amp (Unregulated)
- Application Aware
- CANBUS

- Bidirectional
- Voltage - Input / Output (combined)
  - 10-36V DC (500W Regulated)
  - 25 Amp (Unregulated)
- Application Aware
- CANBUS

**SP 1B      SP 2B**
**REGULATED OUTPUT / BATTERY OUTPUT**

Smart Ports 1A & 1B are tied together. One can output Regulated Power while the second one outputs Battery (Unregulated) Power when operated simultaneously. Same is the case for Smart Ports 2A & 2B.

**SMART CABLE AUTHENTICATION**

**MARKINGS & IDENTIFICATION**

The outer housing of VIP/ER Gen 3 is marked permanently with the following information. Size, color, and location of these markings may vary.

**INFORMATION**

- Identifiers of Ports, Module Bays, and Status Button.
- Product Name
- Serial Number

**FOR MORE INFORMATION**

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