

# ValuSine Plus

## Single Phase, 2.1 to 3 KW

**U.L. Listed to UL924 Lighting and UL1778 UPS Standard, by CSA**

Perfect Power Systems in a continuing effort to upgrade our products to meet new market needs, is introducing the ValuSine Plus. The ValuSine Plus has the smallest footprint in the industry for the kW rating and optional features offered inside one cabinet and UL 924 listed by CSA.

This unit is designed to handle incandescent, fluorescent, HID, HPS, and Induction lamps. The ValuSine Plus is 98% efficient, directly providing energy savings for the customer. The ValuSine Plus is a true unity rated Inverter, available in two sizes: 2.1 KW for a maximum 2100 watts, and 3 KW for a maximum 3000 watts. As an option, the ValuSine Plus is available with the most advanced monitoring and management system on the market - the new GMS - Global Monitoring System.

This system is designed to lead the marketplace into the next century. We offer every option that is currently available in one remarkable small package.

The ValuSine Plus is designed specifically to provide 90 minutes of battery back up for egress path emergency lighting. This unit features the latest technology Microprocessor controlled electronics with PWM (Pulse Width Modulated) design for true Sine Wave output. It is a "No-Break" on-line system to handle all lamps including HID, specified for egress path lighting.

### Application

The ValuSine Plus is listed to UL 924 by CSA and designed for one application only. "To Provide 90 minutes of battery back up power to the lamps that provide the egress lighting for the safe and orderly evacuation of a building".

### Simple and Innovative

This self contained Central Lighting Inverter is Microprocessor controlled for optimum results and efficiency. This small footprint will fit into office environments with its aesthetically appealing cabinet.

### Energy Saving Operation

The ValuSine Plus has 98 % efficiency in off line configuration to reduce energy consumption for the customer.

### Ease of Maintenance

Since the ValuSine Plus unit is a modular, microprocessor controlled, self diagnostic unit, it needs little attention to keep functioning. Only a yearly preventative maintenance inspection and it is ready to go.



### Typical installations:

Hospitals, Mall/Outlets, Small Offices, Hotels/Motels, Small Industrial, Military, HMO, Clinics, Restaurants, Video Stores

Small KW applications where size is the determining factor



### STANDARD FEATURES

- Battery back-up for full 90 & 15 minutes
- Most cost effective for alternative types of lighting
- Self Diagnostic for reduced maintenance cost
- Pulse Width Modulated (PWM)
- Generator compatibility
- AC Input breaker
- Output breaker
- Battery breaker
- Compatible with HID, HPS, Induction, Fluorescent, Incandescent
- No break design using 30 KHz PWM
- Cost effective design
- Smallest footprint (by kW) for space savings consideration
- Modular Assembly
- Easy to read back lit LCD display panel
- Front door access
- Easy conduit entry from top and both sides
- Maintenance free batteries specifically designed for Central Lighting Inverters
- Microprocessor controlled battery charger for increased battery life
- High frequency design for quiet operation

# ValuSine Plus

- Sizes**..... 2100 and 3000 Watts
- Input Voltage**..... 120, 208, 240, and 277 Volts On-Line
- Output Voltage**..... 120, 208, 240, and 277 Volts
- Output Frequency** ..... 60 Hz. ±5%
- Output Voltage Regulation** ... ±4% for all loads and for Battery Discharge mode
- Output Wave Form** ..... Sinewave during emergency at 10% max. THD with linear load
- Output Protection**..... Current limiting and short circuit protection
- Efficiency** ..... 92% online / 98% Standby
- Battery**..... 96 VDC Maintenance free sealed lead calcium
- Recharge Time** ..... Conforms to UL standard
- Environmental**
  - Humidity 0 - 95% RH w/no condensation
  - Operating Temp. UPS: 0° to +40°C. (32° to 104°F)
  - Battery Temp. 20° to 25°C. (68° to 77°F)

## Features & Options

- Multiple Voltages:  
Input 120, 208, 240, or 277  
Output 120, 208, 240, 277, or Multi-Output
- Normally ON
- Combination Normally ON or OFF in different voltages
- Internal Maintenance Bypass
- Variable Time
- Unity Power Factor 2100 Watts and 3000 Watts
- Output Circuit Breakers up to 12
- Various voltages output on or off configuration
- No Break design
- AC Input Breaker
- Output Main Breaker
- DC Breaker
- Up to 98% efficiency in off line design
- Pulse Width Modulated
- Continuous Self Diagnostic
- Back lit LCD 4x40 Character
- Optional Remote Meter Panel
- Sealed Maintenance free batteries
- Push Button Test Switch
- Reduced Maintenance Costs
- Meets and exceeds all UL 924 requirements
- Single unit (optional bracket) to retain floor space
- Stackable Units (with optional Brackets) for increased floor space savings.
- Maintenance Bypass Switch
- Seismic Brackets

Total Watts	Model Number	Input	Output	Weight (LBS)	Ship Wt (LBS)	BTUs/HR	Physical Size W" x H" x D"	
<b>2100</b>	PF2.1A01SCN1 PF2.1A58SCT1	120V	120V Multiple	478	545	1675	39 x 48 x 18	
	PF2.1B13SCN1 PF2.1B58SCT1	208V	208V Multiple	565	632			
	PF2.1D04SCN1 PF2.1D58SCT1	240V	240V Multiple	565	632			
	PF2.1R25SCN1 PF2.1R58SCT1	277V	277V Multiple	652	719			
<b>3000</b>	PF3.0A01SCN1 PF3.0A58SCT1	120V	120V Multiple	583	650	1425		39 x 48 x 18
	PF3.0B13SCN1 PF3.0B58SCT1	208V	208V Multiple	672	737			
	PF3.0D04SCN1 PF3.0D58SCT1	240V	240V Multiple	672	737			
	PF3.0R25SCN1 PF3.0R58SCT1	277V	277V Multiple	759	824			

### Optional Global Monitoring System (GMS)

- Provide SNMP MIB to monitor & log UPS status
- Auto-sense 10M/100M Fast Ethernet
- Manage & configure via Telnet, Web Browser or NMS
- Support TCP/IP, UDP, SNMP, Telnet, SNTP, PPP, HTTP, SMTP Protocol
- Sending both of SNMP TRAP and Email for events notification.
- Auto email daily Battery Backup history report (configurable)
- Basic NetAgent: LAN or WIFI
- Advance NetAgent: LAN, WIFI, Dial-up Modem, or GPRS Modem



*Consult Factory for more features and choices of remote communication.*

Specifications are subject to change without prior notification.  
Multiple Output Voltage: 208, 240, 277, & 120V

