

TECHNICAL SPECIFICATION

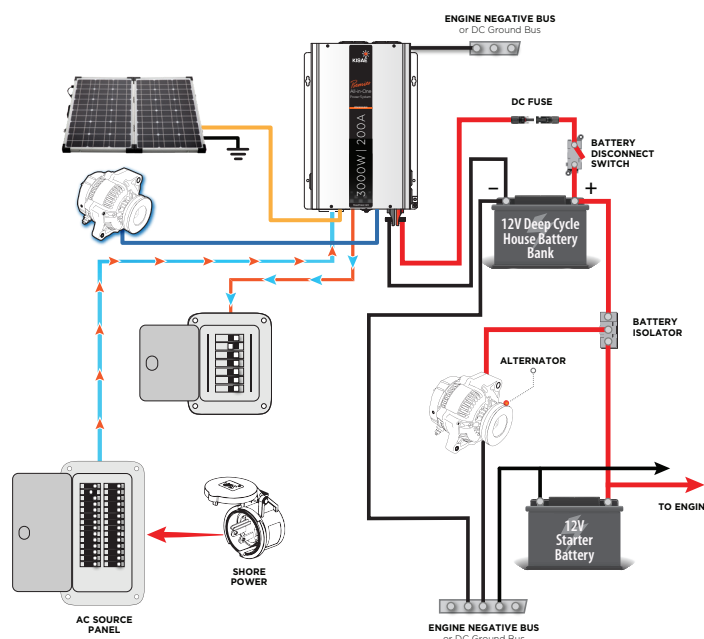
PPS1230200 Bi-Directional (120V Series) 3000W Inverter + 100A AC Charger + Two 50A DC-DC Chargers with PV controller



PREMIER ALL-IN-ONE POWER SYSTEM

Product features

- Combines a 3000W DC-AC Inverter plus transfer switch with a max of 200A multi-stage battery charger.
- Inverter with true sinewave output.
- Multi-stage battery charging.
- 200A charger current, with 100A coming from AC Charger. Dual 50A DC charging options, both with individual alternator and Solar PV inputs.
- DC Charger 1 and DC Charger 2 can be individually set to both with solar or both with alternator or one with solar and one with alternator input.
- Variable settings offered for Gel, Flooded, AGM, and Lithium battery compatibility.
- Vehicle ignition start signal to control use of alternator to charge battery.
- CAN Communicaton System.



System diagram

Available output options



USA



HARDWIRE

Specifications subject to change without notice.

PPS1230200 3000W Inverter + 100A AC Charger + Two 50A DC-DC Chargers with PV controller

Inverter

AC Output Power (Continuous)	3000W
AC Output Power (Peak - 1 second)	6000W
AC Output Voltage/Frequency	120VAC / 60 Hz
AC Output Current	25.0A
AC Output Current (Peak)	50A max (with max power limitation)
AC Output Waveform	True Sinewave (<5% THD)
Peak Efficiency	90%
Input Voltage (nominal)	12.5Vdc
Input Voltage Operation Range	10.5 - 16.5Vdc
Inverter Standby Current	<3.0A
Input Standby Current (Power Save)	< 0.6A

Battery Charging

Charger Voltage Range	13.8 - 14.8V (Selectable)
Float Voltage Range	13.0 - 14.0V (Selectable)
AC Charger Current (max):	100A
DC Charger 1 Current (max):	50A
DC Charger 2 Current (max):	50A
Charger Battery Type	Gel, Flooded, AGM, Lithium, Programmable, Power Supply
Charging Stages	Check, Bulk, Absorption, Float, Recharge
Recharge Voltage Range	12.8 - 14.0 V (Selectable)
Recharge Timer	7-days (Automatic)
Power Sharing	Reduce Charger Current when heavy AC Load is connected

AC Input Charging

AC Input Range	104 - 132Vac
AC Input Frequency:	60Hz

DC Input Charging (Battery/Alternator) (Each DC Charger)

DC Input Range	10.5 - 32Vdc
DC Input Nominal Operation	12.8V for 12V charging system 25.6V for 24V charging system
Engine Start Control: ON	DC Input from Battery/Alternator
Engine Start Control: OFF	DC Input from PV input (if applicable)
Maximum Input Current	80A

DC Input Charging (PV Input) (Each DC Charger)

DC Input Range	15 - 100 Vdc
DC Input Nominal Operation:	18Vdc for 12V PV panels connected in parallel 36, 54, 72Vdc for 12V PV panels connected in series
MPPT Tracking Efficiency	> 98%
Maximum Input Current	40A

AC Transfer Switch

AC Input Voltage/Frequency	120 VAC
AC Input Voltage Acceptance Range:	108 - 132 VAC
Transfer Time	< 30ms
Transfer Relay Rating	30A
AC Input Port	Hardwire 30A Heavy Duty Connector
AC Output Port	Hardwire 30A Heavy Duty Connector
AC Output Socket	NEMA 5-20 GFCI

Protection

Battery Input Undervoltage Shutdown:	10.5 - 12.0Vdc (with dynamic control)
Battery Input Undervoltage Warning:	11.0 - 12.5Vdc
Battery Input Undervoltage Recovery:	11.5 - 13.0Vdc
Battery Input Overvoltage Shutdown:	16.5Vdc
Inverter Overload Shutdown:	3300W
Unit Over-temp Shutdown:	Yes

Display (Main Unit)

Power On/Off Switch	Yes (Push Button)
Indicator	3 LEDs (Power, AC Output, Unit Status)
Remote Display Port	For Remote Display Panel use
Battery Temperature Sensor Port:	For use with Battery Temperature Sensor (BTS)
Ignition Start Port	For use with Vehicle 'ACC' signal

Remote Display Panel (External)

Indicator (LED)	Power, AC Output, Unit and Battery Status
Display Type	LCD with backlighting
Numerical Display Function	Battery Voltage, AC Power, DC Current
Graphics Display Function	AC Bypass, Battery Power, AC Input, Battery Status Warning/Fault Code
Communication	CAN BUS, Bluetooth (optional)
USB Port	Unit software upgrade

Regulatory Compliance

Markings	TUV
Conformance	UL & CSA Standards
EMI/EMC	FCC Part 15 Class B

Size

Dimensions (L x W x H)	19.7" x 12.2" x 6.2" (500mm x 307mm x 157mm)
Net Weight	32.5 lbs. (14.7 Kg)

Standard warranty

1 year warranty



This product carries a TUV safety certification which complies with the Regulatory safety standards for North America.

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Distributor:

PPS1230200 Schematic Drawings

