PB-2000



Traffic control Battery Backup from a traffic control company – the logical choice for reliable intersection operation.

The PB2000-ITS automatically provides emergency back-up power to traffic signals and controls whenever normal electric power is lost. It increases or decreases voltage to maintain normal operation during brownouts and power spikes, reducing the chance of dangerous intersection collisions due to "dark" signals, thus reducing the need for law enforcement and emergency personnel resources.

Minimizes component damage and signal tech callouts due to power failures.

Using the new web-card, it is easier than ever to connect to the Peek PB2000 via Ethernet. We now have the ability to setup multiple users and check current status from anywhere using most web browsers. The new Firmware will also send email notifications.



Specifications

Input		(Output Function			;	Environmental	
Voltage Range VAC	90 to 150 programma Default 100 to 130 +/		Annarent	2000VA (inverter mode)		Unit boosts output voltage (or transfers to battery)	Operating Temp°C	-37 to +74°C (See Notes 1& 2)
Frequency,Hz	60 +/- 3Hz		Power,VA	2000VA (line mode)	Brownout Protection	during brownout or low input line conditions and returns to normal when input power stabilizes	Storage Temp°C	-50 to +75°C
Maximum Inpu	ut 30 A (resistive)		Active Power,W	1500 (Inverter Mode)		over user-selected time period. Set points for	Humidity	<95%non-condensing
Inrush Current	Load Dependent					Transfer /Retransfer, To / From Battery / Boost are users programmable	Altitude, ft(m)	10,000 (3000) (SeeNote 2)
Over Current Protection	Double pole single throw circuit breaker i 30 A for input and out DC bus 60 A breaker	tput,	Power Factor	1500 (Line mode) .075	Generator Compatability	Generator mode allows wider variation in input voltage and frequency for use with an AC generator	Mechar	nical
Transient	nnsient MOV Transient suppression		Output Voltage,	120 nominal	Battery Charger	PFC switch-mode, two-stage charger, temperature compensated (-2.5 to -5 mV/°C/cell,		
Suppression elements (>150V) Step Load Response (50% Load Change) Short Circuit Protection Battery String Voltage, VDC Step Load Response (1/2 Cycle Full Recovery (Full resistive load) 1/2 Cycle Full Recovery (Full resistive load) 1/3 A Circuit Breaker 48 (Four 12VDC Batteries)		eries) (C) (C) (C) (C) (C) (C) (C) (VAC Line and Buck/Boost Mode Mode Inverter Mode Frequency,Hz Transformer Output Waveform Output Dutput Waveform THD Load Crest Factor Overload Capacity	100-130 +/-2 VAC (follows input voltage) 120 VAC +/-5% 60 +/- 0.4 Hz Linear (non-isolated) Sine Wave <3% (Resistive Load) 3:1 (Max) 110% for 3 min.	10 A Inverter Mode Inverter Mode Current Limit Remote monitoring NOTES: Between 557 at 1, 1500VA 1, 200	auto shutoff above 50°C Capable of running continuously in inverter mode Continuous electronic current limit is provided -Input and output voltages -Input line frequency -Output power -Battery voltage -Battery temperature	PB2000 Mounting PB2000 Input Connection PB2000 Output Connection to Loads PB2000 Cooling PB2000 Audible Noise Level, dBA MBS/PTS Dimensions (WXDxH) inch/mm for	19" (483mm) rack or shelf mount 3 Position Terminal Block Two 3 Position Terminal Blocks Microprocessor controlled, 12 VDC, 3.6" (92mm) fan <40
Communications C		Cei	rtification and	d	Canto	I Tomical Block	standard rack mount MBS/PTS Mounting MBS/PTS Weight (lb/kg)	H: 3.5 / 89 7.0/3.2
Communications			Approvals		Control Terminal Block		MBS/PTS Input	Shelf or 19" rack mount
RS-232 / USB / Ethernet	Monitors, controls with terminal emulation	Electrica Safety	ical UL-1778, CSA- / 107.1, UL-195	0	A. Provides 6 sets of programmable contacts at pin 1 thru pin 18 for intersection flash control, Remote Alarms, Pagers or other user interface. "Low Batt": batteries have reached approximately		Connection	Terminal block
	software	EMI	FCC Class A				MBS/PTS Output Connection to Loads	Terminal block
	DB-9, Female, Opto- Isolated, straight-thru	Surge	Tested to: IEC v 1000-4-5, IEEE		40% capac	city remaining unit is in inverter mode	MBS/PTS Output connection to UPS	6 foot cable ready for hard wire to UPS terminal block
USB	cable B-Ty recepeptacle 10/100 Mbps		C62.41	Functions	(programmab	uit has been in inverter mode for 2 hours ble) ny of the following conditions occur: Line	MBS/PTS cooling	Convection (approx. 7 W contactor coil dissipation)
SNMP (optional)	Ethernet, auto- detected	Transfe	erformance _r		Frequency error, low Output voltage, no Temperature Probe, overload, no battery connected, high temperature, low temperature			
Ethernet (optional)	10/100 Mbps Ethernet, auto- detected	Time Controll PTS	er 4 to 10 ms <30 ms		5. temperatu	any of the following conditions occur: ure, low temperature. short circuit, Batt low att high voltage, high temperature, overload.		



TOTAL

Efficiency,

Line Mode

Efficiency,

Inverter

<65 ms

>95%

Load)

>80%

Load)

(Resistive

(Resistive

Wiring

Display Panel 2-line LCD

About Signal Group – covers a broad range of quality turnkey traffic control products and services. Signal Group products have helped to make motorists around the world safer and their travels more pleasant and efficient. This expertise, experience, and breadth of product lines has made Signal Group one of the most respected and recognized leaders in the traffic control marketplace The information contained in this publication is presented for informational purposes only, and while every effort has been made toensure its accuracy, the information is not to be construed as warranty or guarantee, express or implied, regarding the products orservices described herein or their use or applicability. No license is granted by implication or otherwise to any of Signal Group'sintellectual property. Signal Group reserves the right to alter or revise any of its products or published technical data related thereof at any time without notice. ©2012 Signal Group

B. Provides 48 VDC signal to PTS on pins 21 & 22 C.

less than 100 ohm

Uses 14-26 AWG

Contact Type Form C. Dry contacts rated 1 Amp at 240V

Triggers self-test by momentarily shorting pin 19 & 20 with