



## DESCRIPTION

The Cyberhawk 300 is built on the Powersmiths Cyberhawk PMP-30 Power Management Platform. It is packaged in a NEMA 2 case and pre-wired for easy installation with compression terminals, including fused voltage disconnects and 'shunting' CT terminal blocks (for maintenance).

The unit is equipped with a user-friendly menu-driven touch screen display. The standard display is monochrome 128x64 pixels. The optional 1/4 VGA monochrome or color screen is required for local viewing of waveforms and harmonic histograms. The Cyberhawk 300 is accessible over an Ethernet connection (Intranet) or the Internet (IP setup dependent) using a standard Java enabled Internet Browser. It also has built-in support for building management systems using native Modbus protocol.

The Cyberhawk 300 interfaces to the electrical system via user-installed CTs. These are normally supplied separately, as CTs are application specific (eg. current and Bus dimensions). It is directly powered by the 3-phase Voltage sensing lines, eliminating the need for a separate 120V feed and can operate through poor power quality conditions including less than 50% voltage on any available phase and ride through momentary interruptions.

All meter setup parameters are password protected and may also be set locally at the screen or remotely using the available Powersmiths software installed on a PC platform including resetting energy registers and event logs. User settable correction factors (gain and phase) minimize PT and CT errors (Note CTs supplied by Powersmiths are error characterized). Events/Alarms thresholds are user settable for magnitude, delay and action.

## ORDERING INFORMATION

<b>Cyberhawk-300</b>	-	<b>1P</b>	-	<b>600/480</b>	-	<b>M</b>	-	<b>X</b>	-	<b>X</b>
		<b>Ports</b>		<b>Voltage</b>		<b>Option</b>				
		1P: 1 x 4 wire 2P: 2 x 4 wire 3P: 2 x 4 wire, 1 x 3 wire		208/120 600/480		S: SPD Currents				
				<b>Display</b>		<b>Other Options</b>				
				S: 128 x 64 Pixel M: 1/4 VGA Mono C: 1/4 VGA Color		Note: Listed as applicable				

Selection of some options may change enclosure size and weight. Consult factory for detailed product data sheet for these and other configurations. \*Specific case used determined by factory unless specified.



Technical specifications subject to change without notice.

Copyright 2007, Powersmiths International Corp. All rights reserved. Cyberhawk is a trademark of Powersmiths International Corp.

Printed on acid free, elemental chlorine free paper. Paper contains 50% recycled content including 15% post consumer waste.



POWERSMITHS INTERNATIONAL CORP. 10 Devon Road, Brampton, Ontario L6T 5B5 Canada

Phone: (905) 791-1493 Toll-free: (800) 747-9627 Fax: (905) 791-8870 Email: info@powersmiths.com

www.powersmiths.com

## TECHNICAL SPECIFICATIONS

### SYSTEM RATINGS:

208/120 Model: 208/120V 50/60 Hz

600/480 Model: 600/347V 60Hz 480/277 50/60Hz

Operating range: -50% to +135% of nom. 1 or 3-phase

Ride through: > 200ms

Burden: < 13W

### PORTS 1, 2 & 3 CONFIGURATIONS:

Port 1, 2, 3: 1-phase Single/Split

Port 1, 2, 3: 3-phase D (3-wire, 2-CT)

Port 1, 2: 3-phase Y (4-wire, 3-CT)

Protection: Fused disconnects; Shorting CT Terminals

Accuracy: 0.1% typical (V & I), 0.5% Power/Energy

CT Ratio: Up to 8,000:5

PT Ratio: Up to 65,000:120

Correction Factors:  $\pm 3\%$  (PTs and CTs)  $\pm 3^\circ$  phase

### RELAY OUTPUTS:

Contacts: 2 x SPDT; 5A @ 250VAC

### AUXILIARY INPUTS:

Digital: 2 (self-biased 24VDC)

Temperature: 4 Type A Thermistor inputs  
(1 ambient sensor provided)

### MEMORY:

Events: 1,000 in NV RAM

Clock: Battery-backed

Firmware: Flash based; field upgradeable

### COMMUNICATION:

Ethernet: 10/100 BaseT

Protocols: TCP/IP, Modbus TCP 4-level Password

RS485 (alternate): 2-wire to 19.2kB, Modbus

### HUMAN INTERFACE:

Touch Screen: 128 x 64 pixel (1/4 VGA optional)

Setup: Local and Remote by software

Access Restriction: Password protected

### DATA LOGS:

Parameters: 20 (user selectable)

Log Interval: 10 sec. to 1 hour

Built-in Log Time (parameters x log interval):

example - 4 months for 12 parameters @15 min

Network/PC based Log Time: unlimited

### PHYSICAL:

Size: 24"H x 16"W x 8"D; 47 lbs weight

Mounting: Wall (bracket included)

Enclosure: NEMA 2

Temperature: -10°C to +40°C

### WARRANTY:

5 year limited warranty