

150 - 200 WATT

## POWER SUPPLY

SHOWN IN ACTUAL SIZE



## VI-200 SERIES PRELIMINARY DESIGN DATA SHEET

## GENERAL DESCRIPTION

Westcor's new VI-200 Series is an enhanced version of our industry standard VI-100. Power has been increased dramatically to 150 watts for 5 volt output models. Outputs of 12 volts or greater achieve 200 watts. VI-200's measure 2.4" x 4.6" x .5" and weigh only 6 ounces. Pin for pin compatible with the VI-100 series, VI-200's feature thermal shut-down, OVP, current limiting and wide input ranges. High voltage inputs allow off-line operation for distributed power applications. Please see the Westcor VI-100 data sheet for additional information also relevant to the new VI-200 Series.



WESTCOR CORPORATION

## VI-200 FEATURES

## ADVANTAGES

## BENEFITS

2.4" x 4.6" x .5"  
30 Watts/in.<sup>3</sup>Small size, high  
power densityPuts you ahead in the  
"space race" for  
system real-estate80% min. typical  
efficiencyLess energy lost to  
heat; reduced power  
consumptionHigher reliability and  
more economical useUL, CSA, VDE, TUV  
specificationsSafety Agency  
Approved (some  
models under  
evaluation)Worldwide markets  
for your products  
when using Westcor  
VI-200's

Thermal Shutdown

Over-temperature  
protectionLimits system faults  
due to cooling  
failuresGate-In Override-  
Any module can  
operate as a "slave"Any VI-200 will act as  
a booster (with  
current sharing) by  
simply tying "Gate  
Out" pin of "Master"  
to "Gate In" pin of  
designated booster(s)  
modulesTremendous  
flexibility in system  
configuration  
including redundant  
(N+1 or 2N)  
requirements

## VI-200 SELECTOR GUIDE-PRODUCT INTRODUCTION

INPUT VOLTAGE	OUTPUT VOLTAGE OPTIONS				
	5 VOLT	12 VOLT	15 VOLT	24 VOLT	48 VOLT
(270) 200-400	VI-260-CV 5V/30A	VI-261-CU 12V/16.7A	VI-262-CU 15V/13.3A	VI-263-CU 24V/8.3A	VI-264-CU 48V/4.17A
(135) 100-200	VI-250-CV 5V/30A	VI-251-CU 12V/16.7A	VI-252-CU 15V/13.3A	VI-253-CU 24V/8.3A	VI-254-CU 48V/4.17A
(48) 40-60	VI-230-CV 5V/30A	VI-231-CU 12V/16.7A	VI-232-CU 15V/13.3A	VI-233-CU 24V/8.3A	VI-234-CU 48V/4.17A
(24) 20-30	VI-210-CV 5V/30A	VI-211-CU 12V/16.7A	VI-212-CU 15V/13.3A	VI-213-CU 24V/8.3A	VI-214-CU 48V/4.17A

## 2, 3, AND 5 YEAR WARRANTY

Westcor products are guaranteed for a period of 2 years for "Commercial" (C) product 3 years for "Industrial" (I) product, and 5 years for "Military" (M) product from the date of shipment, against defects in material or workmanship, when in normal use and service. This warranty does not extend to products subjected to misuse, accident or improper application or maintenance. Westcor shall not be liable for collateral or consequential damage. This warranty is extended to the original purchaser only. **Except for the foregoing express warranty, Westcor makes no warranty, express or implied, including, but not limited to, the warranty of merchantability or fitness for a particular purpose.** Westcor will repair or replace the defective product in accordance with its own best judgement. For service under this warranty the buyer must contact the factory to obtain a **Return Material Authorization Number** and shipping instructions. Products returned without prior authorization will be returned to the buyer. The buyer will pay all charges incurred in returning the product to the factory. The factory will pay all reshipment charges if the product was defective within the terms of this warranty.



**WESTCOR CORPORATION**  
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## ORDERING INFORMATION

**Order Placement**-Orders may be placed with your area representative or directly with the factory. Orders can be telephoned or sent in by mail. If orders are telephoned in, please confirm the order in writing. No orders will be shipped from the factory without a confirming purchase order.

**For immediate order placement**  
call: TWX: 910-240-2108  
(408) 395-7050  
FAX (408) 395-1518

When ordering, please specify the complete model number, ship to and bill to address, and preferred method of shipment. Unless otherwise specified, all orders will be shipped UPS. For faster deliveries, specify UPS BLUE, or AIR EXPRESS.

**Prices**- All prices are quoted F.O.B. manufacturer in U.S. dollars. Applicable federal, state and local taxes are extra. Prices are subject to change without notice.

**Terms**- Net 30 days subject to prior credit approval.

## SPECIFICATIONS

<b>Quiescent Current</b>	3.5 mA
<b>Efficiency <math>\pm 75\%</math> of Full Load, Nominal Line</b>	
5V	80%
12V	84%
15V	84%
24V	86%
48V	88%
<b>Set Point Accuracy</b>	$\pm 1\%$
<b>Sense Range</b>	0.5V
<b>Adjustment Range</b>	$\pm 10\%$ , to 0V
<b>Load Regulation (10 to 100%)</b>	$\pm 0.2\%$ Max
<b>Line Regulation (Low to High)</b>	$\pm 0.1\%$ Max
<b>OVP</b>	115 to 135% V Nom
<b>Thermal Shutdown Temp</b>	$95^\circ\text{C} \pm 5^\circ\text{C}$
<b>Differential Output Noise (DC to 20 MHz)</b>	2% Max Pk-Pk
<b>Current Limit</b>	105 to 125% I Nom
<b>Isolation</b>	
VI-260, VI-250	3750 VAC
VI-230, VI-210	1500 VAC
<b>UL, CSA, TUV</b>	In Process
<b>Output Transient Response</b>	100 $\mu\text{s}$ Typ
<b>Turn On Time (1% SS)</b>	500 $\mu\text{s}$
<b>Temperature Range (Baseplate)</b>	
Commercial (C)	0 to $85^\circ\text{C}$
Industrial (I)	$-40$ to $85^\circ\text{C}$
Military (M)	$-55$ to $85^\circ\text{C}$
<b>MTBF</b>	500,000 Hours MIL-HDBK-217D Ground Benign $35^\circ\text{C}$