

The Xantrex XHR Series provides up to 1000 watts of programmable DC power in a compact half-rack package. Ideal for both benchtop and system use, the XHR is power factor corrected for low current draw (only 11 A @ 120 VAC for 1000 watts) and reduced generation of input current harmonics. State-of-the-art zero voltage or "soft" switching technology virtually eliminates switching transients and contributes to the efficiency and low-noise performance of this product. The XHR is stackable, with a small footprint, front panel binding post connectors, and a low current requirement that allows it to be plugged into a standard 120 VAC, 15 A circuit, making it the smart choice when a programmable high power source is required on the bench. The half-rack XHR is ideal as a "companion" for another half-rack instrument in a test system equipment console, eliminating the need for a blank panel while preserving vertical rack space. With a choice of rear and/or front panel connectors, the XHR offers added system flexibility. Unique features and size make the XHR ideal for OEM applications where high power and wide adjustment of output voltage or current is required and a compact half-rack configuration is advantageous.



Eighteen 600 and 1000 watt models

85-250 VAC universal input

Power factor correction (0.99 minimum)

Zero voltage ("soft") switching for high efficiency and low noise

Constant voltage or constant current operation with automatic crossover and mode indication

Stackable half-rack package

Benchtop and rack mountable

Front and/or rear connectors

Analog programming standard, optional ISOL (Isolated programming interface) card

Optional internal 16-bit GPIB (IEEE-488) and RS-232 control interface cards

LabView and LabWindows (National Instruments approved) drivers

OVP, current limit, thermal protection

Standby mode

Ten turn front panel knobs for high resolution setting of voltage and current limit

Front panel button preview of voltage, current, OVP

Remote/local modes

Remote sense, 5 V line loss compensation

CE, CSA approved, UL pending





Two Units Rack Mounted With and Without Front Panel Connectors

Electrica Specifications 1 for the **XHR** 1 kW Series (Specifications are subject to change without notice.)

Output Ratings:	Model	XHR 7.5-130	XHR 20-50	XHR 33-33	XHR 40-25	XHR 60-18	XHR 100-10	XHR 150-7	XHR 300-3.5	XHR 600-1.7
Output Voltage	Output Ratings:									
Author Power At the front panel binding posts: Output Current Output Current Output Current Output Current Output Power Output Current Output Power Out		0-7.5 V	0-20 V	0-33 V	0-40 V	0-60 V	0-100 V	0-150 V	0-300 V	0-600 V
At the front panel binding posts: Output Current			0-50 A	0-33 A						
Output Current	Output Power	975 W	1000 W	1089 W	1000 W	1080 W	1000 W	1050 W	1050 W	1020 W
Dulput Power 225 W 600 W 990 W 1000 W 1080 W 1000 W 1050 W 1050 W 1020 W	At the front panel binding posts:									
Line Regulation: 2	Output Current	0-30 A	0-30 A	0-30 A		0-18 A	0-10 A	0-7 A	0-3.5 A	0-1.7 A
Voltage	Output Power	225 W	600 W	990 W	1000 W	1080 W	1000 W	1050 W	1050 W	1020 W
Voltage	Line Regulation: ²									
Load Regulation: 3		1 mV	1 mV	1 mV	1 mV	1.5 mV	1.5 mV	3 mV	10 mV	15 mV
Voltage	<u>Current</u>	5 mA	2 mA	1 mA	1 mA	1 mA	1 mA	1 mA	1 mA	1 mA
Current 50 mA 10 mA 4 mA 3 mA 3 mA 2 mA 2 mA 2 mA 2 mA Meter Accuracy: Voltage (0.5% of Vmax + 1 count) 0.05 V 0.2 V 0.3 V 0.3 V 0.4 V 0.6 V 0.9 V 1.6 V 4 V Current (0.5% of Imax + 1 count) 0.8 A 0.4 A 0.3 A 0.3 A 0.1 A 0.06 A 0.05 A 0.03 A 0.01 A Output Noise & Ripple: rms 5 mV FmS 5 mV 10 mV 300 mV Po (2.0 MHz) 3 .75 mV 10 mV 16.5 mV 20 mV 30 mV 50 mV 75 mV 150 mV 300 mV Current (0.1% of Imax)	Load Regulation: 3									
Meter Accuracy:	Voltage	1.5 mV	1.5 mV	1.5 mV	1.5 mV	1.5 mV	2.5 mV	4 mV	10 mV	15 mV
Voltage (0.5% of Vmax + 1 count) 0.05 V 0.2 V 0.3 V 0.3 V 0.4 V 0.6 V 0.9 V 1.6 V 4 V Current (0.5% of Imax + 1 count) 0.8 A 0.4 A 0.3 A 0.3 A 0.1 A 0.06 A 0.05 A 0.03 A 0.01 A Output Noise & Ripple: fms 5 mV 50 mV 50 mV 50 mV 50 mV 50 mV 50 mV 75 mV 100 mV 300 mV 50 mV 50 mV 75 mV 100 mV 300 mV 75 mV 100 mV 300 mV 300 mV 75 mV 150 mV 300 mV 300 mV 75 mV 150 mV 300 mV 300 mV 75 mV 150 mV 300 mV 75 mV 150 mV 300 mV 300 mV 75 mV 150 mV 300 mV 75 mV 150 mV 300 mV 75 mV 150 mV 4 mV 66 mV 8 mV 12 mV 20 mV 30 mV 20 mV 30 mV 20 mV 30 mV 30 mV	Current	50 mA	10 mA	4 mA	3 mA	3 mA	2 mA	2 mA	2 mA	2 mA
Current (0.5% of Imax + 1 count) 0.8 A 0.4 A 0.3 A 0.3 A 0.1 A 0.06 A 0.05 A 0.03 A 0.01 A Output Noise & Ripple: rms 5 mV 50 mV 50 mV 50 mV 50 mV 50 mV 50 mV 75 mV 100 mV 300 mV Drift (8 hours): 4	Meter Accuracy:									
Output Noise & Ripple: 5 mV 50 mV 50 mV 50 mV 50 mV 50 mV 50 mV 75 mV 100 mV 300 mV Drift (8 hours): 4 Voltage (0.05% of Vmax) 3.75 mV 10 mV 16.5 mV 20 mV 30 mV 50 mV 75 mV 150 mV 300 mV Current (0.1% of Imax) 130 mA 50 mA 33 mA 25 mA 18 mA 10 mA 7 mA 3.5 mA 1.7 mA Temperature Coefficient: 5 Voltage (0.02% of Vmax)° C) 1.5 mV 4 mV 6.6 mV 8 mV 12 mV 20 mV 30 mV 60 mV 120 mV Current (0.03% of Imax)° C) 39 mA 15 mA 9.9 mA 7.5 mA 5.4 mA 3 mA 2.1 mA 1.1 mA 0.48 mA Maximum Remote Sense Line Drop Compensation 6 3 V/line 5 V/line 5 V/line 5 V/	Voltage (0.5% of Vmax + 1 count)	0.05 V	0.2 V	0.3 V	0.3 V	0.4 V	0.6 V	0.9 V	1.6 V	4 V
rms 5 mV 50 mV 50 mV 50 mV 50 mV 75 mV 100 mV 300 mV Drift (8 hours): 4 Voltage (0.05% of Vmax) 3.75 mV 10 mV 16.5 mV 20 mV 30 mV 50 mV 75 mV 150 mV 300 mV Current (0.1% of Imax) 130 mA 50 mA 33 mA 25 mA 18 mA 10 mA 7 mA 3.5 mA 1.7 mA Temperature Coefficient: 5 Voltage (0.02% of Vmax)° C) 1.5 mV 4 mV 6.6 mV 8 mV 12 mV 20 mV 30 mV 60 mV 120 mV Current (0.03% of Imax)° C) 39 mA 15 mA 9.9 mA 7.5 mA 5.4 mA 3 mA 2.1 mA 1.1 mA 0.48 mA Maximum Remote Sense Line Drop Compensation 6 3 V/line 5 V/line 5 V/line 5 V/line 5 V/line 5 V/line 5 V/li	Current (0.5% of Imax + 1 count)	0.8 A	0.4 A	0.3 A	0.3 A	0.1 A	0.06 A	0.05 A	0.03 A	0.01 A
rms 5 mV 50 mV 50 mV 50 mV 50 mV 75 mV 100 mV 300 mV Drift (8 hours): 4 Voltage (0.05% of Vmax) 3.75 mV 10 mV 16.5 mV 20 mV 30 mV 50 mV 75 mV 150 mV 300 mV Current (0.1% of Imax) 130 mA 50 mA 33 mA 25 mA 18 mA 10 mA 7 mA 3.5 mA 1.7 mA Temperature Coefficient: 5 Voltage (0.02% of Vmax)° C) 1.5 mV 4 mV 6.6 mV 8 mV 12 mV 20 mV 30 mV 60 mV 120 mV Current (0.03% of Imax)° C) 39 mA 15 mA 9.9 mA 7.5 mA 5.4 mA 3 mA 2.1 mA 1.1 mA 0.48 mA Maximum Remote Sense Line Drop Compensation 6 3 V/line 5 V/line 5 V/line 5 V/line 5 V/line 5 V/line 5 V/li	Output Naisa & Binnla									
Drift (8 hours): 4 S0 mV T5 mV 100 mV 300 mV		5 m\/	E m\/	5 m\/	5 m\/	5 m\/	5 m\/	10 mV	15 m\/	50 mV
Drift (8 hours): ⁴ Voltage (0.05% of Vmax) 3.75 mV 10 mV 16.5 mV 20 mV 30 mV 50 mV 75 mV 150 mV 300 mV Current (0.1% of Imax) 130 mA 50 mA 33 mA 25 mA 18 mA 10 mA 7 mA 3.5 mA 1.7 mA Temperature Coefficient: 5 Voltage (0.02% of Vmax/° C) 1.5 mV 4 mV 6.6 mV 8 mV 12 mV 20 mV 30 mV 60 mV 120 mV Current (0.03% of Imax/° C) 39 mA 15 mA 9.9 mA 7.5 mA 5.4 mA 3 mA 2.1 mA 1.1 mA 0.48 mA Maximum Remote Sense Line Drop Compensation 6 3 V/line 5 V										
Voltage (0.05% of Vmax) 3.75 mV 10 mV 16.5 mV 20 mV 30 mV 50 mV 75 mV 150 mV 300 mV Current (0.1% of Imax) 130 mA 50 mA 33 mA 25 mA 18 mA 10 mA 7 mA 3.5 mA 1.7 mA Temperature Coefficient: 5 Voltage (0.02% of Vmax/° C) 1.5 mV 4 mV 6.6 mV 8 mV 12 mV 20 mV 30 mV 60 mV 120 mV Current (0.03% of Imax/° C) 39 mA 15 mA 9.9 mA 7.5 mA 5.4 mA 3 mA 2.1 mA 1.1 mA 0.48 mA Maximum Remote Sense Line Drop Compensation 6 3 V/line 5 V/line	p-p (0-20 lvin2)	JOHN	30 1117	30 1110	30 1110	30 1117	30 1117	731117	1001111	300 1117
Current (0.1% of Imax) 130 mA 50 mA 33 mA 25 mA 18 mA 10 mA 7 mA 3.5 mA 1.7 mA Temperature Coefficient: 5 Voltage (0.02% of Vmax/° C) 1.5 mV 4 mV 6.6 mV 8 mV 12 mV 20 mV 30 mV 60 mV 120 mV Current (0.03% of Imax/° C) 39 mA 15 mA 9.9 mA 7.5 mA 5.4 mA 3 mA 2.1 mA 1.1 mA 0.48 mA Maximum Remote Sense Line Drop Compensation 6 3 V/line 5 V/	Drift (8 hours): 4									
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Voltage (0.02% of Vmax/° C) 1.5 mV 4 mV 6.6 mV 8 mV 12 mV 20 mV 30 mV 60 mV 120 mV Current (0.03% of Imax/° C) 39 mA 15 mA 9.9 mA 7.5 mA 5.4 mA 3 mA 2.1 mA 1.1 mA 0.48 mA Maximum Remote Sense Line Drop Compensation 6 3 V/line 5 V/line <	Current (0.1% of Imax)	130 mA	50 mA	33 mA	25 mA	18 mA	10 mA	7 mA	3.5 mA	1.7 mA
Voltage (0.02% of Vmax/° C) 1.5 mV 4 mV 6.6 mV 8 mV 12 mV 20 mV 30 mV 60 mV 120 mV Current (0.03% of Imax/° C) 39 mA 15 mA 9.9 mA 7.5 mA 5.4 mA 3 mA 2.1 mA 1.1 mA 0.48 mA Maximum Remote Sense Line Drop Compensation 6 3 V/line 5 V/line <	Temperature Coefficient: 5									
Current (0.03% of Imax/° C) 39 mA 15 mA 9.9 mA 7.5 mA 5.4 mA 3 mA 2.1 mA 1.1 mA 0.48 mA Maximum Remote Sense Line Drop Compensation 6 3 V/line 5 V/line		1.5 mV	4 mV	6.6 mV	8 mV	12 mV	20 mV	30 mV	60 mV	120 mV
Line Drop Compensation 6 3 V/line 5 V/l										
Line Drop Compensation 6 3 V/line 5 V/l	Maximum Pomoto Sonso									
OVP Adjustment Range: (5% to 110% of Vmax) 0.375-8.25 V 1-22 V 1.65-36.3 V 2-44 V 3-66 V 5-110 V 7.5-165 V 15-330 V 30-660 V		3 V/line	5 V/line	5 V/line	5 V/line	5 V/line	5 V/line	5 V/line	5 V/line	5 V/line
(5% to 110% of Vmax) 0.375-8.25 V 1-22 V 1.65-36.3 V 2-44 V 3-66 V 5-110 V 7.5-165 V 15-330 V 30-660 V		3 7/1110	3- 1/11110	3 7/1110	3 V/IIIIC	3 Willie	3 Willie	J V/III1C	3 V/IIIIC	3 7/1110
	OVP Adjustment Range:									
Efficiency: 7 81% 83% 83% 83% 84% 84% 85% 85% 85%	(5% to 110% of Vmax)	0.375-8.25 V	1-22 V	1.65-36.3 V	2-44 V	3-66 V	5-110 V	7.5-165 V	15-330 V	30-660 V
	Efficiency: 7	81%	83%	83%	83%	84%	84%	85%	85%	85%

Interface Specifications 1 for the XHR1 kW Series with RS-232 or GPIB Interface Installed (Specifications are subject to change without notice.)

							3	*	
Model	XHR 7.5-130	XHR 20-50	XHR 33-33	XHR 40-25	XHR 60-18	XHR 100-10	XHR 150-7	XHR 300-3.5	XHR 600-1.7
Program Resolution (16 Bit)									
Voltage (mV)	0.13	0.34	0.55	0.67	1.01	1.68	2.52	5.04	10.1
Current (mA)	2.18	0.84	0.55	0.42	0.3	0.17	0.12	0.06	0.03
OVP (mV)	0.13	0.34	0.55	0.67	1.01	1.68	2.52	5.04	10.1
Program Accuracy									
Voltage (mV) (0.2%+10 mV)	25	50	76	90	130	210	310	610	1210
Current (mA) (0.3%+10 mA)	400	160	109	85	64	40	31	21	15
OVP (mV) (0.5%+100 mV)	138	200	265	300	400	600	850	1600	3100
Readback Resolution (16 Bit)									
Voltage (mV)	0.13	0.34	0.55	0.67	1.01	1.68	2.52	5.04	10.1
Current (mA)	2.18	0.84	0.55	0.42	0.3	0.17	0.12	0.06	0.03
Readback Accuracy									
Voltage (mV) (0.2%+20 mV)	35	60	86	100	140	220	320	620	1220
Current (mA) (0.3%+20 mA)	410	170	119	95	74	50	41	31	25

- Specifications indicate typical performance at 25° C \pm 5° C, nominal line input of 120 VAC.
- For input voltage variation over the AC input voltage range, with constant rated load.

 For 0-100% load variation, with constant nominal line voltage. Measured at the rear panel output connector unless stated otherwise.

 Maximum drift over 8 hours with constant line, load, and temperature, after 30-minute warm-up.
- Change in output per ° C change in ambient temperature, with constant line and load. Line drop is subtracted from total voltage available at supply output.

 Typical efficiency at 115 VAC input and rated output power.

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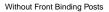














Optional RS-232 Interface Card/ Low Voltage Output Connector



Optional GPIB Interface Card/ High Voltage Output Connector





XHR 1 kW General Specific	ations						
ARK I KW General Specific	attions (Specificati	ions are subject to change without notice.)					
Operational AC Input Voltage	85-250 VAC, 47- for AC input less	63 Hz; power factor corrected. Derate maximum output power to 900 W s than 95 V					
Maximum Input Current	13 A maximum a	at 100 VAC, 11 A maximum at 120 VAC, 6 A maximum at 220 VAC					
Power Factor	0.99 minimum fo	or full load and 120 VAC input					
Input Harmonic Distortion	Harmonics disto	rtion complies with EN61000-3-2 limits					
Switching Frequency	7.5 V to 300 V models: nominal 125 kHz (250 kHz output ripple); 600 V model: nomina 62.5 kHz (125 kHz output ripple)						
Time Delay	4s maximum froi	m power on until output stable					
Voltage Mode Transient Response Time	1 ms for output voltage to recover within 0.5% of its previous level after a step change in load current of up to 50% of rated output						
Maximum Voltage Differential	±600 VDC from (output to safety ground					
Remote Start/Stop and Interlock	2.5-15 V signal o	or TTL-compatible input, selectable logic					
Remote Analog Programming	Voltage and current programming inputs (source must be isolated): 0-5 k, 0-10 k resistances; 0-5 V (default), 0-10 V voltage sources						
Remote Analog Monitoring	Voltage and current monitor outputs 0-5 V (default), 0-10 V ranges for 0-100% of output						
Remote Programming and Monitoring Accuracy	<±1% of full scale output for the default range						
Operating Temperature Range	0 to 40° C						
Storage Temperature Range	-40 to 85° C						
Humidity Range	10 to 80% RH, non-condensing						
Front Panel Voltage and Current Control	10-turn voltage a	and current potentiometers					
Front Panel Voltage Control Resolution	0.02% of maxim	um voltage					
AC Input Connector Type	IEC 320 connec	tor					
Main Output Connector	7.5 to 40 V mode 60 to 600 V mod	els: nickel-plated copper bus bars; lels: 4-terminal wire clamp connector for DC output and local sense					
Weight (one unit)	Approximately 6	.4 kg (14 lb.)					
Approvals	CE-marked units meet CAN/CSA-22.2 No. 1010.1-92 safety standard and EN50081-2 (Class A) and EN50082-1 EMC standards, CSA certified, UL pending						
Consult the Operating Manual for complete produc	ct specifications.						
XHR 1 kW Options	GPIB-XHR RS-232-XHR ISOL-XHR	GPIB Interface card (16-bit) RS-232 Interface card (16-bit) Isolated Interface card provides isolated analog control and readback of output voltage and current					
	M13 M22a M61	Locking bushings on front panel controls No front binding posts Recessed front panel potentiometers 19-inch rack mount kit for two XHR power supplies					
	RM-XHR	19-Inch ack mount kit for two xfrk power supplies					

Contact Xantrex for custom voltage and current combinations and other options.

Electrical Specifications ¹ for the **XHR** 600 W Series (Specifications are subject to change without notice.)

Model	XHR 7.5-80	XHR 20-30	XHR 33-18	XHR 40-15	XHR 60-10	XHR 100-6	XHR 150-4	XHR 300-2	XHR 600-1
Output Ratings:									
Output Voltage	0-7.5 V	0-20 V	0-33 V	0-40 V	0-60 V	0-100 V	0-150 V	0-300 V	0-600 V
Output Current	0-80 A	0-30 A	0-18 A	0-15 A	0-10 A	0-6 A	0-4 A	0-2 A	0-1 A
Output Power	600 W	600 W	594 W	600 W	600 W	600 W	600W	600 W	600 W
At the front panel binding posts:									
Output Current	0-30 A	0-30 A	0-18 A	0-15 A	0-10 A	0-6 A	0-4 A	0-2 A	0-1 A
Output Power	225 W	600 W	594 W	600 W	600 W	600 W	600 W	600 W	600 W
Line Regulation: 2									
Voltage	1 mV	1 mV	1 mV	1 mV	1.5 mV	1.5 mV	3 mV	10 mV	15 mV
Current	2 mA	1 mA	1 mA	1 mA	1 mA	1 mA	1 mA	1 mA	1 mA
Load Regulation: ³									
Voltage	1.5 mV	1.5 mV	1.5 mV	1.5 mV	1.5 mV	2.5 mV	4 mV	10 mV	15 mV
Current	40 mA	7.5 mA	2 mA	2 mA	2 mA	2 mA	2 mA	2 mA	2 mA
Meter Accuracy:									
Voltage (0.5% of Vmax + 1 count)	0.05 V	0.2 V	0.3 V	0.3 V	0.4 V	0.6 V	0.9 V	1.6 V	4 V
Current (0.5% of Imax + 1 count)	0.5 A	0.3 A	0.1 A	0.09 A	0.06 A	0.04 A	0.03 A	0.02 A	0.006 A
0 / / 11 : 0 5: 1									
Output Noise & Ripple:	4>/	4 \	4 :== \	4 :>/	4 \		7.5\/	15\	F0 \/
Voltage rms	4 mV	4 mV	4 mV	4 mV	4 mV	5 mV	7.5 mV	15 mV	50 mV
Voltage p-p (0-20 MHz)	40 mV	40 mV	60 mV	60 mV	60 mV	60 mV	75 mV	100 mV	300 mV
Drift (8 hours): 4									
Voltage (0.05% of Vmax)	3.75 mV	10 mV	16.5 mV	20 mV	30 mV	50 mV	75 mV	150 mV	300 mV
Current (0.1% of Imax)	80 mA	30 mA	18 mA	15 mA	10 mA	6 mA	4 mA	2 mA	2 mA
Temperature Coefficient: 5									
Voltage (0.02% of Vmax/° C)	1.5mV	4 mV	6.6 mV	8 mV	12 mV	20 mV	30 mV	60 mV	120 mV
Current (0.03% of Imax/° C)	24 mA	9 mA	5.4 mA	4.5 mA	3 mA	1.8 mA	1.2 mA	0.6 mA	0.3 mA
Maximum Remote Sense									
Line Drop Compensation ⁶	3 V/line	5 V/line	5 V/line	5 V/line	5 V/line	5 V/line	5 V/line	5 V/line	5 V/line
OVP Adjustment Range:	0 035 0 0	4 20 14	1 /5 0/ 5			5 440.1/	354/5	45.000	00 ((0))
(5% to 110% of Vmax)	0.375-8.25 V	T-22 V	1.65-36.3 V	2-44 V	3-66 V	5-110 V	7.5-165 V	15-330 V	30-660 V
Efficiency: 7	80%	82%	82%	83%	83%	83%	84%	84%	84%

Interface Specifications 1 for the XHR 600 W Series with RS-232 or GPIB Interface Installed (Specifications are subject to change without notice.)

Model	XHR 7.5-80	XHR 20-30	XHR 33-18	XHR 40-15	XHR 60-10	XHR 100-6	XHR 150-4	XHR 300-2	XHR 600-1
Program Resolution (16-bit)									
Voltage (mV)	0.13	0.34	0.55	0.67	1.01	1.68	2.52	5.04	10.1
Current (mA)	1.34	0.5	0.3	0.25	0.17	0.1	0.07	0.03	0.02
OVP (mV)	0.13	0.34	0.55	0.67	1.01	1.68	2.52	5.04	10.1
Program Accuracy									
Voltage (mV) (0.2%+10 mV)	25	50	76	90	130	210	310	610	1210
Current (mA) (0.3%+10 mA)	250	100	64	55	40	28	22	16	13
OVP (mV) (0.5%+100 mV)	138	200	265	300	400	600	850	1600	3100
Readback Resolution (16-bit)									
Voltage (mV)	0.13	0.34	0.55	0.67	1.01	1.68	2.52	5.04	10.1
Current (mA)	1.34	0.5	0.3	0.25	0.17	0.1	0.07	0.03	0.02
Readback Accuracy									
Voltage (mV) (0.2%+20 mV)	35	60	86	100	140	220	320	620	1220
Current (mA) (0.3%+20 mA)	260	110	74	65	50	38	32	26	23

- Specifications indicate typical performance at 25° C \pm 5° C, nominal line input of 120 VAC.
- Specifications indicate typical performance at 25° C ± 5° C, nominal line input of 120 VAC. For input voltage variation over the AC input voltage range, with constant rated load. For 0-100% load variation, with constant nominal line voltage. Measured at the rear panel output connector unless stated otherwise. Maximum drift over 8 hours with constant line, load, and temperature, after 30-minute warm-up. Change in output per ° C change in ambient temperature, with constant line and load. Line drop is subtracted from total voltage available at supply output. Typical efficiency at 115 VAC input and rated output power.

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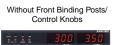
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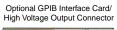






Optional RS-232 Interface Card/ Low Voltage Output Connector









XHR 600 W General Specific	cations (Specific	cations are subject to change without notice.)				
Operational AC Input Voltage	85-250 VAC, 47	-63 Hz; power factor corrected				
Maximum Input Current	7.5 A maximum	at 100 VAC, 6.3 A maximum at 120 VAC, 3.5 A maximum at 220 VAC				
Power Factor	0.99 minimum f	or full load and 120 VAC input				
Input Harmonic Distortion	Harmonics disto	ortion complies with EN61000-3-2 limits				
Switching Frequency		nodels: nominal 125 kHz (250 kHz output ripple): 600 V model: nominal Hz output ripple)				
Time Delay	4 s maximum fro	om power on until output stable				
Voltage Mode Transient Response Time	1 ms for output voltage to recover within 0.5% of its previous level after a step change in load current of up to 50% of rated output					
Maximum Voltage Differential	±600 VDC from	output to safety ground				
Remote Start/Stop and Interlock	2.5-15 V signal or TTL-compatible input, selectable logic					
Remote Analog Programming	Voltage and current programming inputs (source must be isolated): 0-5 k, 0-10 k resistances; 0-5 V (default), 0-10 V voltage sources					
Remote Analog Monitoring	Voltage and current monitor outputs 0-5 V (default), 0-10 V ranges for 0-100% of output					
Remote Programming and Monitoring Accuracy	<±1% of full scale output for the default range					
Operating Temperature Range	0 to 40° C					
Storage Temperature Range	-40 to 85° C					
Humidity Range	10 to 80% RH, non-condensing					
Front Panel Voltage and Current Control	10-turn voltage	and current potentiometers				
Front Panel Voltage Control Resolution	0.02% of maxim	num voltage				
AC Input Connector Type	IEC 320 connec	ctor				
Main Output Connector	7.5 to 40 V mod 60 to 600 V mod	lels: nickel-plated copper bus bars; dels: 4-terminal wire clamp connector for DC output and local sense				
Weight (one unit)	Approximately 6.4 kg (14 lb.)					
Approvals	CE-marked units meet CAN/CSA-22.2 No. 1010.1-92 safety standard and EN50081-2 (Class A) and EN50082-1 EMC standards, CSA certified, UL pending					
Consult the Operating Manual for complete produc	et specifications.					
XHR 600 W Options	GPIB-XHR RS-232-XHR ISOL-XHR M13 M22a M61	GPIB Interface card (16-bit) RS-232 Interface card (16-bit) Isolated Interface card provides isolated analog control and readback of output voltage and current Locking bushings on front panel controls No front binding posts Recessed front panel potentiometers				
	RM-XHR	19-inch rack mount kit for two XHR power supplies				

Contact Xantrex for custom voltage and current combinations and other options.