



2200-VA DC-to-AC Inverter



SERIES 1747 AND 1787 DC-TO-AC INVERTERS 115VAC SINE-WAVE OUTPUT

- **24, 48, OR 130-VDC INPUT**
- **LOW-DISTORTION OUTPUT**
- **AC POWER METER**
- **OPTIONAL REMOTE MONITORING VIA SNMP AND WEB BROWSER**
- **90% EFFICIENCY**
- **ENGINEERED & MANUFACTURED IN NORTH CAROLINA, USA**

SPECIFICATIONS

NOMINAL INPUT VOLTAGE (VDC) ¹	24	48	130
INPUT VOLTAGE RANGE (VDC)	21-29	42-56	105-145
INPUT CURRENT AT NO LOAD (ADC) ²	2.3	1.1	0.4
INPUT CURRENT AT FULL LOAD (ADC) ³	119.0	58.3	23
FULL LOAD EFFICIENCY (Typical) ²	88%	90%	91%
HEAT DISSIPATION (Btu per hour)	1024	834	743
OUTPUT VOLTAGE	115VAC nominal, single phase		
FREQUENCY	60Hz nominal (50Hz optional) ±0.01Hz maximum variation over the full range of load and input voltage changes (crystal controlled)		
VOLT-AMPERE RATING	2200 VA continuous duty at 50° C		
OUTPUT VOLTAGE REGULATION	±1% versus dc input line; ±3% versus load		
OUTPUT VOLTAGE WAVE SHAPE	Sine wave with 1%-3% total harmonic distortion (typical)		
TEMPERATURE RANGE	Operating: -10° C to +50° C (internal fan cooling) Storage: -40° C to +85° C		
PROTECTION	Provided electronically against short-term overloads with automatic recovery upon removal of the fault. Protection against a sustained overload fault provided by an output circuit breaker. Protection against accidental reversal of dc-input polarity provided by front-panel circuit breaker		
FRONT-PANEL CIRCUIT BREAKERS	Combination circuit breaker and ON/OFF switch provided for dc-input power; Output circuit breaker		
AC POWER METER	Meter indicates true-rms AC potential in Volts, true-rms AC current in Amperes, real AC power in Watts, and AC power factor as a fraction		
REMOTE MONITORING (Model 1787 only)	Provided via a web interface or SNMP using RJ45 port		
LOCAL ACCESS MONITORING (Model 1787 only)	Provided through serial terminal port using USB connection (Type B)		
DC-INPUT CONNECTIONS	Provided via high-current compression lugs which are covered by a cover plate		
AC-OUTPUT CONNECTIONS	Provided via a duplex receptacle, NEMA type 5-20R		
DIMENSIONS INCHES (MM)	17.0 (432)W x 1.72 (44)H x 16.75 (426)D, excluding mounting brackets and front panel features		
COLOR and WEIGHT	Standard front panel paint color is black. Approximately 22 pounds.		
MOUNTING BRACKETS	Provided for 19-inch and 23-inch rack mounting (flush mounting or 7.1-inch front offset mounting)		
ACCESSORIES INCLUDED	USB cable and ethernet cable (Model 1787 only), user information guide, mounting brackets		

¹ Can be a positive or a negative voltage because there is galvanic isolation between the dc input, ac output, and the chassis.

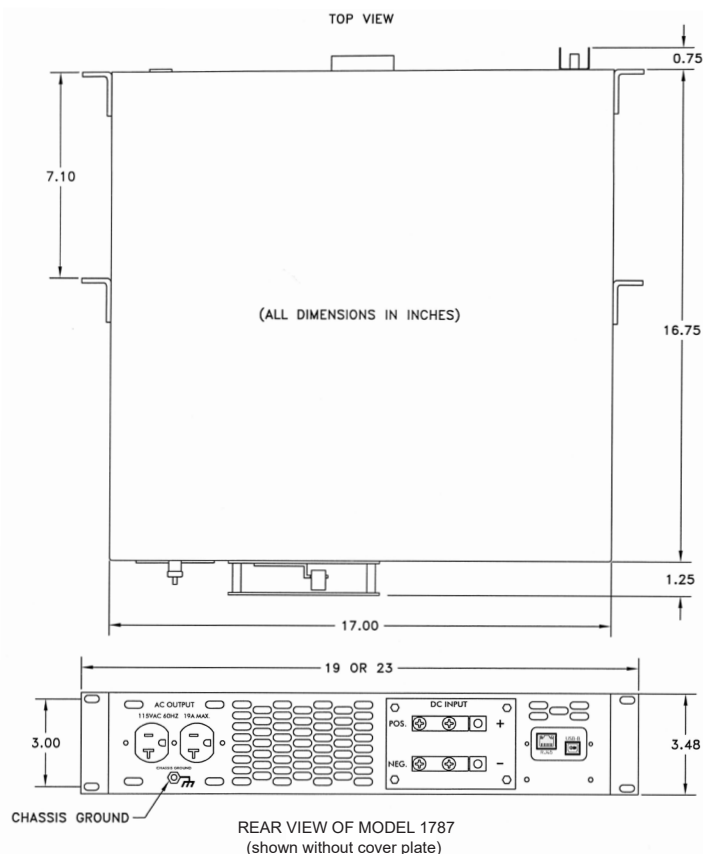
² Typical at nominal input voltage

³ Typical at full load and minimum input voltage

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**SERIES 1747 AND 1787
 DC-TO-AC INVERTERS
 115VAC SINE-WAVE OUTPUT**



The optional network communications interface feature allows for remote monitoring of various metrics of the inverter, such as input voltage, output voltage, load current and more. This information can be accessed through the onboard web interface, web service API, USB serial interface, and also using SNMP.

Model	Network Comms. Interface	MODEL NUMBERING INFORMATION $\frac{1787}{1} - \frac{48}{2} - \frac{115}{3} - \frac{60}{4}$	<ol style="list-style-type: none"> 1. Series 1787 (with Network Comms Interface) or Series 1747 (without Network Comms Interface) 2. Input Voltage (24, 48 or 130Vdc) 3. Output Voltage (115Vac) 4. Output Frequency (60 or 50Hz)
1747			
1787	✓		

OTHER WILMORE PRODUCTS

For information about other Wilmore dc-to-ac inverters or for information about other power-conversion products such as dc-to-dc converters, switching power supplies, and custom power solutions, please contact our sales department.

Information provided in this bulletin is subject to change without notice.

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