

# Power

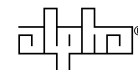
## 1600EP Series

Single Phase Headend UPS



- Freestanding configurations 3.6 to 18kVA
- Compact footprint and high power density
- Excellent for headend, hub site and OTN applications
- Hot swappable batteries and slide-out battery trays
- External battery connector for extended runtime is standard
- Optional features include modular receptacle panel and Internal SNMP/web browser interface

Alpha's 1600EP Series incorporates dual conversion technology that provides Total Power Conditioning for sensitive headend electronics, regardless of the quality of utility or generator input power. This topology has power factor correction on the input circuit which provides compatibility with all generators, even when the UPS is sized near generator capacity. The UPS has an internal static bypass for redundant protection in case of overload or fault condition. The built-in low impedance isolation transformer provides further protection by completely isolating the critical load from the input source even if in bypass mode—a true one box solution.



## 1600EP Series

### Nominal Specifications

1600EP Series Dual Conversion	3600EP	6000EP	8000EP	10000EP	14000EP	18000EP
Output Power Rating:	3600VA	6000VA	8000VA	10000VA	14000VA	18000VA
Output Power Factor:	.85	.85	.85	.85	.85	.85
Input Voltage (VAC):	208/240	208/240	208/240	208/240	208/240	208/240
Output Voltage (VAC):	120/208/240	120/208/240	120/208/240	120/208/240	120/208/240	120/208/240
Typical Efficiency- AC/AC 100% Load:	85%	85%	85%	85%	85%	85%
Typical Heat Output (BTU/hr):	1550	2580	3444	4220	5060	7580
<b>Mechanical UPS</b>						
Width (in/mm):	10/254	10/254	13/330.2	13/330.2	17.5/444.5	17.5/444.5
Height (in/mm):	27.5/698.5	27.5/698.5	28.25/717.6	28.25/717.6	39.1/993.1	39.1/993.1
Depth (in/mm):	33/838.2	33/838.2	33.5/850.9	33.5/850.9	34.8/883.9	34.8/883.9
Weight (lb/kg):	365/169.6	385/174.6	490/222.3	490/222.3	620/281.2	750/340.2
<b>Internal Battery Runtime</b>						
Full Load @ .85 Power Factor:	14min	7min	7min	5min	7min	5min
Half Load @ .85 Power Factor:	42min	21min	21min	15min	21min	15min

Note:

Internal runtime at .7 power factor is approximately 30% more.

External battery runtime options are available from 30 minutes to 8 hours. Please contact your Alpha sales representative for more information.

### Common Specifications

Input Frequency:	45 to 65Hz
Output Frequency:	60Hz, ±0.1%
Operating Input Voltage Range:	-30 to 10%
Output Voltage Regulation:	±3%
Overload Capacity:	125% for 10min 150% for 10sec 1000% for 1 Cycle

### Status & Control Features

#### LCD Readout

AC Input and Output Voltage  
Input and Output Frequency  
Output Current  
Battery Voltage and Test Results  
Number of Discharges and Faults  
Touch Pad UPS/Bypass Operation  
Emergency Power Off Terminals  
UPS Inverter/Bypass Mode

### Standard Features

- UPS Operation
- Slide Out Battery Trays
- Hot Swappable Batteries
- RS-232 Interface
- External Battery Interface
- Alarm Reset Operation
- LED Display with Key Pad Status LEDs
- Internal SNMP Device with Optional SNMP/Web Slide in Card

### Optional Features

Maintenance Bypass  
Internal SNMP/Web Slide-in Card  
Modular Receptacle

### Warranty

UPS: Three-Year Parts and Labor On-site in US only.  
Batteries: Two-Year Full. Three-Year Pro-Rated.

Contact Alpha for further details, conditions and limitations.

For contact information visit [www.alpha.com](http://www.alpha.com)

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### 1400 Series

Rack Mount Model:	1500 RE	2000 RE
Output Power Rating:	1500VA	2000VA
Output Power Factor:	.6 to .85	.6 to .85
Input Voltage (VAC):	120	120
Output Voltage (VAC):	120	120
Typical Efficiency - AC/AC 100% Load:	87%	87%
Typical Heat Output (BTU/hr):	350	382
<b>Mechanical UPS</b>		
Width (in/cm):	19/48.7	19/48.7
Height (in/cm):	5.25/13.3	5.25/13.3
Depth (in/cm):	20/50.8	20/50.8
Weight (lb/kg):	81/36.7	81/36.7
<b>Internal Battery Run Time*</b>		
Full Load:	10min	7min
Half Load:	30min	21min
<b>Power Connector Options (NEMA)</b>		
Input:	5-20P	5-20P
Output:	Two 5-15R2	5-15R2 5-20R2

\* Internal runtime at .7 power factor is approximately 30% more.



1600EP Series Front Panel  
(Monitoring/Programming)



Slide Out Battery Trays