



# 1400 Series Headend UPS



Freestanding Configurations 2.4 kVA to 18 kVA
























Rackmount Configurations 1.5 kVA to 2 kVA.

Compact footprint and high power density.






Excellent for headend, hub site and OTN applications.

Alpha's 1400 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 a "walk-in" transfer feature which provides compatibility with most existing generators, even when sized near generator capacity. The walk-in feature also provides an upgrade path to add a second UPS which can run on the same generator should your headend load grow beyond the first UPS unit's capacity. Internal static bypass provides redundancy in the event of overload or fault.

## Nominal Specifications

1400 Series Dual Conversion	2400 SE	3600 XL	3600 XL PP	6000 XL	6000 XL PP	8000 XL	10000 XL	12000 XL	18000 XL
<b>Output Power Rating</b>	2400VA	3600VA	3600VA	6000VA	6000VA	8000VA	10000VA	12000VA	18000VA
<b>Output Power Factor</b>	.6 - .85	.6 - .85	.6 - .85	.6 - .85	.6 - .85	.6 - .85	.6 - .85	.6 - .85	.6 - .85
<b>Input Voltage (VAC)</b>	120	208 / 240	208 / 240	208 / 240	208 / 240	208 / 240	208 / 240	208 / 240	208 / 240
<b>Output Voltage (VAC)</b>	120	120 / 240	120 / 240	120 / 240	120 / 240	120 / 240	120 / 240	120 / 240	120 / 240
Typical Efficiency - AC/AC 100% Load	89%	85%	85%	85%	85%	85%	85%	85%	85%
Typical Heat Output (BTU/hr)	459	1550	1550	2580	2580	3444	4220	5060	7580
Mechanical UPS / Optional Battery Pack									
<b>Width (Inches)</b>	7.1 / N/A	10 / 10	10 / 10	10 / 10	10 / 10	10 / 10	17.7 / 12.3	17.7 / 12.3	17.7 / 12.3
<b>Height (Inches)</b>	14.6 / N/A	22.2 / 22.2	22.2 / 22.2	28 / 28	28 / 28	28 / 28	39.4 / 39.4	39.4 / 39.4	39.4 / 39.4
<b>Depth (Inches)</b>	23.2 / N/A	29.4 / 29.4	29.4 / 29.4	33.4 / 33.4	33.4 / 33.4	37 / 31.2	34.3 / 31.5	34.3 / 34	34.3 / 34
<b>Weight (Lbs)</b>	106 / N/A	220 / 316	220 / 316	321 / 460	321 / 460	447 / 430	584 / 850	706 / 850	957 / 850
<b>Internal Battery Run Time*</b>									
Full Load	7 Minutes	10 Minutes	10 Minutes	10 Minutes	10 Minutes	10 Minutes	8 Min / 13 Min	8 Minutes	8 Minutes
Half Load	21 Minutes	30 Minutes	30 Minutes	30 Minutes	30 Minutes	30 Minutes	24 Min / 40 Min	24 Minutes	24 Minutes
<b>External Battery Run Time Options*</b>									
A. One External Battery Pack w/ Internal Charger	N/A	1-AS 30C6	1-AS 30C6	1 - AS60C6	1-AS 60C6	1-AS 0850	1 - AS1045	1 - AS120C6	1 - AS180C6
Full Load (total runtime including internal batteries)	50 Minutes	50 Minutes	50 Minutes	50 Minutes	50 Minutes	23 Minutes	45 Minutes	35 Minutes	20 Minutes
Half Load (total runtime including internal batteries)	2 Hours	30 Minutes	2 Hours 30Mn	2 Hours 30Mn	2 Hours 30Mn	1 Hour 15Mn	2 Hours 15Mn	1 Hour 45Mn	1 Hour
B. Two External Battery Packs w/ Internal Charger	N/A	2-AS30C6	2-AS30C6	2 - AS60C6	2 - AS60C6	2 - AS0830	2 - AS1045	2 - AS120C6	2 - AS180C6
Full Load (total runtime including internal batteries)		1 Hr 30Mn	1 Hr 30Mn	1 Hr 30Mn	1 Hr 30Mn	45 Minutes	1 Hr 30Mn	1 Hr 5Mn	35 Minutes
Half Load (total runtime including internal batteries)		4 Hrs 30 Mn	4 Hrs 30 Mn	4 Hrs 30 Mn	4 Hrs 30 Mn 2	Hrs 30 Mn	4 Hrs 30 Mn	3 Hrs 15 Mn	1 Hr 45 Mn
*Battery runtimes are calculated at .7 power factor.						Extended Battery Requires 240V, 20A Service	Extended Battery Requires 240V, 20A Service	Extended Battery Requires 240V, 20A Service	Extended Battery Requires 240V, 20A Service
<b>Power Connector Options (NEMA)</b>									
<b>Input</b>	L5-30P  T.B.  L6-30P  T.B.  6-50P  T.B.  50A Service  50 T.B.  50A Service  50 60A Service  60 80A Service  80 90A Service  90								
<b>Output</b>	5-15R2  5-20R2  T.B.  Four 5-20R2  T.B.  Five 5-20R2  T.B.  T.B.  T.B.  T.B.  T.B. 								

## 1400 Series rack mount

	1500 RE	2000 RE
<b>Output Power Rating</b>	1500VA	2000VA
<b>Output Power Factor</b>	.6 - .85	.6 - .85
<b>Input Voltage (VAC)</b>	120	120
<b>Output Voltage (VAC)</b>	120	120
Typical Efficiency - AC/AC 100% Load	87%	87%
Typical Heat Output (BTU/hr)	350	382
Mechanical UPS / Optional Battery Pack		
<b>Width (Inches)</b>	19 / N/A	19 / N/A
<b>Height (Inches)</b>	5.25 / N/A	5.25 / N/A
<b>Depth (Inches)</b>	20 / N/A	20 / N/A
<b>Weight (Lbs)</b>	81 / N/A	81 / N/A
<b>Internal Battery Run Time*</b>		
Full Load	10 Minutes	7 Minutes
Half Load	30 Minutes	21 Minutes
<b>Power Connector Options (NEMA)</b>		
<b>Input</b>	5-20P  5-20P 	
<b>Output</b>	Two 5-15R2  5-15R2  5-20R2 	

## Common Specifications

Input Frequency	55 to 65Hz
Output Frequency:	60Hz, ±0.1%
Operating Input Voltage Range:	-30% to +10%
Output Voltage Regulation:	±3%
Overload Capacity:	150% for 30 Seconds 300% for 3 Seconds 1000% for 1 Cycle

## Standard Features

- Output Load Indicator
- Battery Level Indicator
- Utility Status Indicator
- Inverter Indicator
- Fault Indicator
- UPS Operation
- Bypass Operation
- Alarm Reset Operation
- DB9 Dry Contact Interface
- RS-232 Interface

## Status & Control Features

(10, 12 and 18 KVA models only)

- LCD Readout
- AC Input and Output Voltage
- Input and Output Frequency
- Output Current
- Battery Voltage and Test Results
- Number of Discharges and Faults
- Key Switch UPS/ Bypass Operation
- Emergency Power Off Switch
- UPS On/ Off line

## Warranty

Three-Year Parts, Labor and Batteries. Contact Alpha for further details, conditions and limitations.