

# ENDURO

## 1-3KVA, 1:1 Phase

### Pure Sinewave On-Line UPS



Camera Surveillance



Telephone Systems



Computer



Servers



Point of Sale



Industrial



The Enduro series is a versatile Pure Sinewave, Online - Double Conversion UPS. Its run time can be adjusted with the use of one or more EBM's (extended battery modules) allowing for longer runtimes on a wide range of loads.

### Features

- On-line double conversion
- Rack and tower mount
- Output power factor 0.9, input power factor 0.99
- Longer run time through EBM
- Interactive LCD screen
- Smart management and control software
- Emergency power off function (EPO)
- Generator compatible

### Rear Panel



1KVA



2/3KVA

1. Intelligent slot (SNMP card, dry contact etc.)
2. USB port
3. RS-232 port
4. Input breaker
5. RJ45 surge protection
6. EPO

### Runtime in minutes

Load VA/W	200VA/ 180W	400VA/ 360W	600VA/ 540W	800VA/ 720W	1000VA/ 900W	1200VA/ 1080W	1500VA/ 1350W	2000VA/ 1800W	3000VA/ 2700W
EN1000	52	25	15	12	8				
EN1000+1EBM	156	75	45	36	24				
EN1000+2EBM	260	125	75	60	40				
EN1000+3EBM	364	175	105	84	56				
EN1000+4EBM	468	115	135	108	72				
EN2000	118	58	38	24	20	16	12	7	
EN2000+1EBM	354	174	120	72	60	53	47	34	
EN2000+2EBM	590	290	200	150	100	94	83	61	
EN2000+3EBM	826	406	280	168	140	135	119	88	
EN2000+4EBM	1062	522	360	216	233	187	155	115	
EN3000	116	56	38	22	19	15	11	7	4
EN3000+1EBM	351	170	117	70	58	51	45	33	12
EN3000+2EBM	584	285	194	103	96	93	79	58	20
EN3000+3EBM	818	397	272	160	135	131	117	86	28
EN3000+4EBM	1052	512	351	210	229	184	148	110	36

Runtimes are an estimation only.

## Specifications

Model	EN 1000	EN 2000	EN 3000
Capacity	1kVA/900W	2kVA/1800W	3kVA/2700W
<b>Input</b>			
Voltage range	230V +/- 20%		
Frequency range	45Hz - 65Hz		
Phase	Single phase		
Power factor	≥ 0.98		
Breaker	6A	10A	15A
Input socket	IEC C14 10A	IEC C14 10A	IEC C20 16A
<b>Output</b>			
Voltage range	230VAC+/-2%		
Frequency ( battery mode)	50Hz +/- 0.1Hz		
Power factor	0.9		
Current crest ratio	3:1		
THD	≤3%(linear Load); ≤5% (non-linear load)		
Waveform	Pure Sinewave		
Output sockets	2x AU 3 Pin sockets ( 1 critical / 1 non-critical)	3x AU 3 Pin sockets ( 2 critical / 1 non-critical)	3x AU 3 Pin sockets ( 2 critical / 1 non-critical)
Efficiency	≥89% normal mode, up to 97% ECO mode		
Overload capacity	30s at 100-150%; 300ms at >150%		
<b>Battery</b>			
Type	Sealed lead acid, maintenance free		
Configuration (standard run)	3x 12V / 9Ah	6x 12V / 9Ah	6x 12V / 9Ah
Rated battery voltage	36V	72V	72V
Charge current (Max)	12A		
Recharge time to 90%	5 Hrs		
Charge mode	Intelligent 3-stage charging		
<b>Comms &amp; Management</b>			
Software	Windows 95/98/NT/2000/XP/Vista/7, Windows Server 2003/2008 Linux Debian, Redhat, Fedora, Suse, Ubuntu, CentOS, Novell, Mac, FreeBSD		
Ports	USB and RS-232 standard		
Optional	SNMP & relay (trigger voltage free contacts)		
LED/LCD display	Load, battery, input, output, operating		
Audible alarm	Battery mode, low battery, overload, fault		
<b>Protection</b>			
Surge protection	2200 Joules / 60,000 Amps		
Input protection	Compliance with IEEE 587		
Short circuit	Resettable circuit breaker		
EPO	Shuts down UPS immediately		
EMC	EN50091-2, C Tick/RCM		
Network	RJ45, fulltime network protection		
<b>Characteristics</b>			
Temperature	0 - 40 °C		
Humidity	0 - 95% (non-condensing)		
Noise level	<50dB at 1m		
Dimensions (WxDxH) / weight	440x430x86.5 (2RU)/15.1kg	440x600x86.5mm (2RU)/26.3kg	440x600x86.5mm (2RU)/26.8kg
Shipping dimensions (WxDxH) / weight	560x560x210mm/17.9kg	560x730x210mm/29.6kg	560x730x210mm/29.9kg
EBM dimensions (WxDxH) / weight	440x430x86.5mm(2RU)/20kg	440x710x86.5mm(2RU)/33kg	440x710x86.5mm(2RU)/33kg
EBM shipping dimensions (WxDxH) / weight	560x560x210mm/24.1kg	560x840x210mm/42.6kg	560x840x210mm/42.6kg

Specifications are subject to change without prior notice

## Communication Accessories

### SW006

SNMP card for  
ENDURO series III  
1-10kVA



### SW011

Relay card for  
ENDURO series III  
1-3kVA



## Recommended Accessories

### RK1000

L Rail -telescopic rail  
for rack mounting  
UPS (490-720mm)



### PSS9LL/LLB9

Long life batteries -  
10-year design life  
battery upgrade

10 year design life

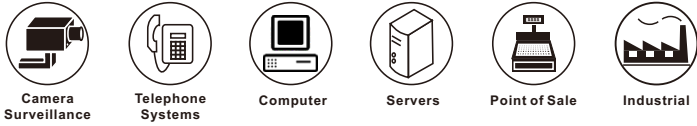


N12754

# ENDURO

## 6-10KVA, 1:1 Phase

### Pure Sinewave On-Line UPS



The Enduro series is a versatile Pure Sinewave, Online - Double Conversion UPS. Its run time can be adjusted with the use of one or more EBM's (extended battery modules) allowing for longer runtimes on a wide range of loads.

### Features

- On-line double conversion
- Rack and tower mount
- Output power factor 1.0, input power factor 0.99
- Longer run time through EBM
- Interactive LCD screen
- Smart management and control software
- Emergency power off function (EPO)
- Generator compatible

### Rear Panel



1. Intelligent Slot (SNMP card, dry contact etc.)
2. USB port
3. RS-232 port
4. Input breaker
5. Battery connector
6. EPO

### Runtime in minutes

Load VA/W	1KVA/ 1KW	2KVA/ 2KW	3KVA/ 3KW	4KVA/ 4KW	5KVA/ 5KW	6KVA/ 6KW	8KVA/ 8KW	10KVA/ 10KW
EN6000	33	26	17	13	9	7		
EN6000+1EBM	82	58	36	26	20	15		
EN6000+2EBM	121	85	53	39	33	22		
EN6000+3EBM	153	110	68	53	45	30		
EN6000+4EBM	203	142	89	66	58	38		
EN10000	35	28	18	14	10	8	6	4
EN10000+1EBM	87	62	38	28	22	16	10	8
EN10000+2EBM	128	90	56	42	35	24	18	12
EN10000+3EBM	162	116	72	56	48	32	25	20
EN10000+4EBM	214	150	94	70	62	41	32	26

Runtimes are an estimation only.

## Specifications

Model	EN 6000	EN 10000
Capacity	6kVA/6000W	10kVA/10000W
<b>Input</b>		
Voltage range	230V +/- 20%	
Frequency range	45Hz - 65Hz	
Phase	Single phase	
Power factor	≥ 0.98	
Breaker	40A/240Vac	63A/240Vac
Input socket	Hardwired (L+N+E)	
<b>Output</b>		
Voltage range	230VAC+/-2%	
Frequency ( battery mode)	50Hz +/- 0.1Hz	
Power factor	1.0	
Current crest ratio	3:1	
THD	≤3%(Linear Load); ≤5% (Non-linear load)	
Waveform	Pure sinewave	
Output sockets	Hardwired (L+N+E)	
Efficiency	≥ 89-92% normal mode, up to 97% ECO mode	
Overload capacity	30s at 100-150%; 300ms at ≥150%	
<b>Battery</b>		
Type	Sealed lead acid, maintenance free	
Configuration (standard run)	16x 12V / 9Ah	20x 12V / 9Ah
Charge current (Max)	10A	
Recharge time to 90%	5 Hrs	
Charge mode	Intelligent 3-stage charging	
<b>Comms &amp; Management</b>		
Software	Windows 95/98/NT/2000/XP/Vista/7, Windows Server 2003/2008 Linux Debian, Redhat, Fedora, Suse, Ubuntu, CentOS, Novell, Mac, FreeBSD	
Ports	USB and RS-232 standard	
Optional	SNMP & relay (trigger voltage free contacts)	
LED/LCD display	Load, battery, input, output, operating	
Audible alarm	Battery mode, low battery, overload, fault	
<b>Protection</b>		
Surge protection	2200 Joules / 60,000 Amps	
Input protection	Compliance with IEEE 587	
Short circuit	Resettable circuit breaker	
EPO	Shuts down UPS immediately	
EMC	EN50091-2, C Tick/RCM	
Network	RJ45, fulltime network protection	
<b>Characteristics</b>		
Temperature	0 - 40 °C	
Humidity	0 - 95% (non-condensing)	
Noise level	<50dB at 1m	
Dimensions (WxDxH) /weight	443x580x217 (5RU)/78.3kg	443x580x217(5RU)/78.3kg
Shipping dimensions (WxDxH) /weight	615x765x286mm/90kg	615x765x286mm/90kg
EBM dimensions (WxDxH) /weight	443x580x131mm(3RU)/63kg	443x580x131mm(3RU)/63kg
EBM shipping dimensions (WxDxH) /weight	573x710x265mm/70kg	573x710x265mm/70kg

Specifications are subject to change without prior notice

## Communication Accessories

### SW006

SNMP card for  
ENDURO series III  
1-10kVA



### SW015

Relay card for  
ENDURO series III  
6 & 10kVA



## Recommended Accessories

### RK1000

L Rail -telescopic rail  
for rack mounting  
UPS (490-720mm)



### PSS9LL/LLB9

Long Life batteries -  
10-year design life  
battery upgrade

10 year design life



N12754