

HUBNETIX Elite S Series

10~200kVA Uninterruptible Power Supply



Elite S 33K10/B / 33K15/B / 33K20/B / 33K30/B / 33K40 / 33K60 / 33K80 / 33K100 / 33K120 / 33K160 / 33K200



Features

- DSP-controlled technology
- Parallel redundancy up to 4 units
- Wide input voltage and frequency windows
- Easy-to-operate LCD display
- High power density up to 200kVA for space saving
- Unity power factor and low input distortion
- Output power factor at 0.8(0.9 optional)
- ECO mode for energy saving
- Common or separate battery
- Programmable battery voltage from $\pm 192\text{Vdc}$ to $\pm 240\text{Vdc}$
- Intelligent charge modes with smart charge current adjustment
- Megatec/Mod Bus protocol supported
- Powerful charger built in
- Versatile communication interfaces provided for different applications
- Superior overload capability
- Programmable control and monitoring software

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MODEL	ES 33K10/B	ES 33K15/B	ES 33K20/B	ES 33K30/B
Capacity (VA/Watts)	10k / 8k	10k / 8k	20k / 16k	30k / 24kzz
INPUT				
Nominal voltage	380/400/415Vac, (3Ph+N+PE)			
Operating voltage range	208~478Vac			
Operating frequency range	40~70Hz			
Power factor	≥0.99			
Bypass voltage range	Max. voltage: 220V: +25%(optional +10%,+15%,+20%), 230V: +20% (optional +10%,+15%) 240V: +15% (optional +10%) Min. voltage: -45% (optional -20%,-30%)			
Bypass frequency range	Frequency protection range:±10%			
Harmonic distortion (THDi)	2% (100% non-linear load)			
Generator input	Support			
OUTPUT				
Output voltage	380/400/415Vac, (3Ph+N+PE)			
Voltage regulation	±1%			
Power factor	0.8/0.9(optional)			
Capacity (VA/Watts)	Line Mode	±1%/±2%/±4%/±5%/±10% of the rated frequency(optional)		
	Battery Mode	50/60(±0.1)Hz		
Crest factor	3:1			
Harmonic distortion (THD)	≤2% with linear load • ≤5% with non-linear load			
Efficiency	≥95%			
BATTERY				
Battery voltage	Standard unit: ±216Vdc; Long run unit Optional Voltage: ±192V/±204V/±216V/±228V/±240Vdc			
Capacity	12V/38Ah(standard unit)			
Charge current(A) <small>(charge current can be set according to battery capacity installed)</small>	10 (Max.)			
SYSTEM FEATURES				
Transfer time	Mains to Battery : 0ms; Mains to Bypass : 0ms			
Overload Short circuit	Line Mode	Load≤110%: last 60min, ≤125%: last 10min, ≤150%: last 1min, >150% turn to bypass mode immediately		
	Battery Mode	Load≤110%: last 10min, ≤125%: last 1min, ≤150%: last 5S, >150% shut down UPS immediately		
	Bypass Mode	Breaker 20A	Breaker 32A	Breaker 40A
Short circuit	Hold whole system			
Overheat	Line Mode: Turn to Bypass; Bat. Mode: Shut down UPS immediately			
Low battery voltage	Alarm and Switch off			
Self-diagnostics	Upon Power On and Software Control			
EPO(optional)	Shut down UPS immediately			
Battery	Advanced Battery Management			
Audible & Visual alarms	Line Failure, Battery Low, Overload, System Fault			
LED & LCD display	Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault			
LCD display	Input,Output, Battery, Command, Setting, Maintenance			
Communication interface	USB, RS485,LBS(optional), Parallel port, Relay card(optional), SNMP card(optional),Battery temperature sensor(optional)			
ENVIRONMENTAL				
Operating temperature	0°C ~ 40°C			
Storage temperature	-25°C ~ 55°C			
Humidity range	0 ~ 95% (non-condensing)			
Altitude	< 1500m			
Noise level	<55dB		<58dB	
PHYSICAL				
Dimension DxWxH (mm)	780x600x1200			
Net weight (kg)	128 / 596 (B)	131 / 599 (B)	131 / 560 (B)	
STANDARDS				
Safety	IEC/EN62040-1;IEC/EN60950-1			
EMC	IEC/EN62040-2;IEC61000-4-2;IEC61000-4-3;IEC61000-4-4;IEC61000-4-5;IEC61000-4-6;IEC61000-4-8			

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MODEL (ELITE)		S 33K40	S 33K60	S 33K80	S 33K100	S 33K120	S 33K160	S 33K200
Capacity (VA/Watts)		40k / 32k	60k / 48k	80k / 64k	100k / 80k	120k / 96k	160k / 128k	200k / 160k
INPUT								
Nominal voltage		380/400/415Vac, (3Ph+N+PE)						
Operating voltage range		208~478Vac						
Operating frequency range		40~70Hz						
Power factor		≥0.99						
Bypass voltage range		Max. voltage: 220V: +25%(optional +10%,+15%,+20%), 230V: +20% (optional +10%,+15%) 240V: +15% (optional +10%) Min. voltage: -45% (optional -20%,-30%)						
Bypass frequency range		Frequency protection range:±10%						
Harmonic distortion (THDi)		2% (100% non-linear load)						
Generator input		Support						
OUTPUT								
Output voltage		380/400/415Vac, (3Ph+N+PE)						
Voltage regulation		±1%						
Power factor		0.8/0.9(optional)						
Capacity (VA/Watts)	Line Mode	±1%/±2%/±4%/±5%/±10% of the rated frequency(optional)						
	Battery Mode	50/60(±0.1)Hz						
Crest factor		3:1						
Harmonic distortion (THD)		≤2% with linear load • ≤5% with non-linear load						
Efficiency		≥95%						
BATTERY								
Battery voltage		Standard unit: ±216Vdc; Long run unit Optional Voltage: ±192V/±204V/±216V/±228V/±240Vdc						
Capacity		12V/38Ah(standard unit)						
Charge current(A) <small>(charge current can be set according to battery capacity installed)</small>		20 (Max.)			30 (Max.)		40 (Max.)	50 (Max.)
SYSTEM FEATURES								
Transfer time		Mains to Battery : 0ms; Mains to Bypass : 0ms						
Overload Short circuit	Line Mode	Load≤110%: last 60min, ≤125%: last 10min, ≤150%: last 1min, >150% turn to bypass mode immediately						
	Battery Mode	Load≤110%: last 10min, ≤125%: last 1min, ≤150%: last 5S, >150% shut down UPS immediately						
	Bypass Mode	80A	100A	125A	225A	250A	350A	
Short circuit		Hold whole system						
Overheat		Line Mode: Turn to Bypass; Bat. Mode: Shut down UPS immediately						
Low battery voltage		Alarm and Switch off						
Self-diagnostics		Upon Power On and Software Control						
EPO(optional)		Shut down UPS immediately						
Battery		Advanced Battery Management						
Audible & Visual alarms		Line Failure, Battery Low, Overload, System Fault						
LED & LCD display		Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault						
LCD display		Input,Output, Battery, Command, Setting, Maintenance						
Communication interface		USB, RS485,LBS(optional), Parallel port, Relay card(optional), SNMP card(optional),Battery temperature sensor(optional)						
ENVIRONMENTAL								
Operating temperature		0°C ~ 40°C						
Storage temperature		-25°C ~ 55°C						
Humidity range		0 ~ 95% (non-condensing)						
Altitude		< 1500m						
Noise level		<58dB			<68dB			
PHYSICAL								
Dimension DxWxH (mm)		780x600x1200						
Net weight (kg)		168	210	286	317	348	355	
STANDARDS								
Safety		IEC/EN62040-1;IEC/EN60950-1						
EMC		IEC/EN62040-2;IEC61000-4-2;IEC61000-4-3;IEC61000-4-4;IEC61000-4-5;IEC61000-4-6;IEC61000-4-8						

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Ordering & Packaging Info

MODEL NUMBER	PART NUMBER	MODEL NUMBER	PART NUMBER
ES 33K10B	HP-ES33K10B	ES 33K40	HP-ES33K40
ES 33K10	HP-ES33K10	ES 33K60	HP-ES33K60
ES 33K15B	HP-ES33K15B	ES 33K80	HP-ES33K80
ES 33K15	HP-ES33K15	ES 33K100	HP-ES33K100
ES 33K20B	HP-ES33K20B	ES 33K120	HP-ES33K120
ES 33K20	HP-ES33K20	ES 33K160	HP-ES33K160
ES 33K30B	HP-ES33K30B	ES 33K200	HP-ES33K200
ES 33K30	HP-ES33K30		

HUBNETIX CORPORATION

71-75, Shelton Street, London, UK.

www.hubnetix.com

The dimensions and specifications in this document are for reference purposes only and are subject to change without notice. Consult HUBNETIX Corp. for the latest dimensions and design specifications.

