HP33ETS SERIES

Online Transformerless UPS series Mode: 3 phase input and 3 phase output

Power range : 200 \sim 1200kVA (3-Level PF: 1.0)



High reliability 高可靠性

- ●Wide input voltage range, line voltage range is 138-485V, UPS will derate to 40% when input voltage is below 305V. 输入电压范围宽,线路电压范围为138-485V,当输入电压低于305V时,UPS将降额至40%。
- ●Thickened conformal coating, applicable for harsh environment such as high heat, high humidity, dust. 加厚保形涂层,适用于高温、高湿、多尘等恶劣环境。

Green and power saving 绿色节能

- ●High input power factor, it is up to 0.99. 输入功率因数高,可达0.99。
- ●3-level topology design, efficiency is up to 96%. 三电平拓扑设计,效率可达96%。
- ●THDi<3% (100% linear load). THDi<3% (100%线性负载)。
- ●The UPS will work in sleeping mode when the load is very small. 当负载很小的时候, UPS会进入休眠模式。

LBS function LBS功能

●LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system. LBS功能可实现2个独立UPS系统同步工作,增强了系统的可靠性。

Intelligent management 智能管理

- ●With 7 inches (Standard) and 10 inches (Optional) colorful touch LCD screen. 配备7英寸(标配)和10英寸(选配)彩色触摸液晶屏。
- ●Support recording and exporting history logs and fault logs. 支持记录和导出历史日志和故障日志。
- ●Support SNMP, RS232, RS485, BMS, Dry contact interface. 支持SNMP、RS232、RS485、BMS、干接点接口。

VRLA&Lithium battery supportable 支持 VRLA 和锂电池

●Compatible with VRLA or lithium battery. 兼容 VRLA 或锂电池。

Parallel redundancy function 并联冗余功能

- ●Support parallel expanded operation: maximum is 8 units. 支持并联扩展运行: 最大8台。
- ●Support sharing batteries for the UPS in parallel. 支持并联UPS共享电池。

Strong load capacity 带载能力强

- ●Output power factor is 1.0, UPS can supply power to 100% unbalanced load. 输出功率因数1.0, UPS可给100%不平衡负载供电。
- ●High adaptability for load, it can connect full inductive load or capacitive load. 负载适应性强,可接全感性负载或容性负载。

TECHNICAL SPECIFICATION 技术规格

Online Transformerless UPS series

Model 型号		HP33ETS-200	HP33ETS-250	HP33ETS-300	HP33ETS-400			
Capacity 容量		200kVA	250kVA	300kVA	200kVA			
NPUT 输入								
Nominal voltage 析	示称电压		380/400/415Va	ac, (3Ph+N+PE)				
Operating voltage range 工作电压范围		138~305Vac for 40% Load; 305~485Vac for 100% Load;						
Operating frequency range 工作頻率范围		40Hz-70Hz						
Power factor 功率因								
Harmonic distortion (THDi) 谐波失真		≥0.99						
Bypass voltage range 穷路电压范围		≤3% (100% Linear load) Max. voltage: 220V: +25% (Optional +10%, +15%, +20%)						
		230V: +20% (Optional +10%, +15%)						
		240V: +15% (Optional +10%)						
		Min. voltage: -45% (Optional -10%, -15%, -20%, -30%)						
Bypass frequency range 旁路频率范围		±10%						
Power walk in 电源输入		±10% Support						
Generator input 发				port				
OUTPUT 输出	(电机栅八		Sup	port				
Rated voltage 额定	电压		380/400/415V:	ac. (3Ph+N+PE)				
Power factor 功率因		380/400/415Vac, (3Ph+N+PE) 1.0						
Voltage regulation		1.0						
	Line mode 线路模式	Synchronize with innu		% (±1%/±2%/±4%/±5% optional), ou	itnut 50/60 (+0 1⊔z)			
Output frequency 输出频率	Bat. mode 电池模式	Syncinorize with Inpu	(50/60±		περαί 30/00 (±0.±Π2)			
Crest factor 波峰因								
		3:1						
Harmonic distortion	II (I I DV) 增次失具	≤2% with linear load; ≤4% with nonlinear load						
Efficiency 效率			Up to	96%				
BATTERY 电池	Silvada tret		200/4-	.C00\/-l-				
Battery voltage 电		360Vdc~600Vdc						
Battery type 电池类型		VRLA/Li						
	rge current电池模块充电电流	80A (Max.)	100A	(Max.)	140A (Max.)			
SYSTEM FEATURI	1			unity of the same				
Transfer time 转换时	-	Utility to Battery: Oms; Utility to bypass: Oms						
Overload 过载	Inverter mode 逆变模式	≤1		Lmin, >150% 1.2s shut down inverte	r			
Overheat 过热	Bypass mode 旁路模式	30 °C : 135% for long term; 40 °C : 125% for long term; >1000%, 100ms						
	111158	L		Mode: Shut down UPS immediately				
Low battery voltage			Alarm and					
Self-diagnostics 自			•	d Software Control				
Backfeed protection				port				
EPO (Optional) EP	U选择		Shut down UPS immediate	, , , , , , , , , , , , , , , , , , , ,				
Battery 电池	區之切却			ry Management				
Noise suppression		Complies with EN62040-3						
Audible & visual ala		Line Failure, Battery Low, Overload, System Fault						
Status LED & LCD display 状态LED和LCD显示屏		Line Mode, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault						
	O display LCD显示屏上的读数	D0222 D0405 D	Input, Output, Battery, Com					
Communication int		K5232, K5485, Parallel, LBS, BN	اله, ۱۵, ۱۵, ۱۵, ۱۵, ۱۵, ۱۵, ۱۵, ۱۵, ۱۵, ۱۵	onal), SNMP card(Optional), Battery t	temperature sensor(Option			
ENVIRONMENTA				10				
Operating tempera		0 °C ~ 40 °C						
Storage temperatu		-25 °C ~55 °C						
Humidity range 湿	度范围	0∼95% (Non condensing)						
Altitude 海拔		<1000m, derating required when >1000m						
Noise level 噪音水 ³	¥.	< 6.	3dB	<65dB	<70dB			
PHYSICAL 物理								
Dimension W×D×H	(S/F) 尺寸		600×850>	2000mm	_			
Net weight 净重		406kg	440kg	460kg	548kg			
STANDARDS 标准								
I WINDARDS WALL								
Safety 安全			IEC/EN 62040-1,	IEC/EN 62477-1				

- S: Without or only with one maintenance bypass breaker.
- ${\sf F}$: With mains, bypass, maintenance bypass and output breakers.
- 1. Specifications are subject to change without prior notice.
- 2. Data above are typical values for reference only, not as a basis for engineering design.

TECHNICAL SPECIFICATION 技术规格

Online Transformerless UPS series

Model 型号		HP33ETS-500	HP33ETS-600	HP33ETS-800	HP33ETS-1000	HP33ETS-1200			
Capacity 容量		500VA	600VA	800kVA	1000kVA	1200kVA			
INPUT 输入									
Nominal voltage 标	示称电压			380/400/415Vac, (3Ph+N+F	E)				
Operating voltage range 工作电压范围		138~305Vac for 40% Load; 305~485Vac for 100% Load;							
Operating frequency range 工作頻率范围		40Hz-70Hz							
Power factor 功率因数		≥0.99							
Harmonic distortion (THDi) 谐波失真		≤3% (100% Linear load)							
Bypass voltage range 旁路电压范围		Max. voltage: 220V: +25% (Optional +10%, +15%, +20%)							
		230V: +20% (Optional +10%, +15%)							
		240V: +15% (Optional +10%)							
		Min. voltage: -45% (Optional -10%, -15%, -20%, -30%)							
Bypass frequency range 旁路頻率范围		±10%							
Power walk in 电源输入				Support					
Generator input 发电机输入				Support					
OUTPUT 输出				· · ·					
Rated voltage 额定	电压			380/400/415Vac, (3Ph+N+F	E)				
Power factor 功率因数		1.0							
Voltage regulation 电压调节		±1%							
Output frequency	Line mode 线路模式	Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1Hz)							
输出频率	Bat. mode 电池模式	(50/60±0.1%)Hz							
Crest factor 波峰因数	数	3:1							
Harmonic distortion	n (THDv) 谐波失真	≤2% with linear load; ≤4% with nonlinear load							
Efficiency 效率		Up to 96%							
BATTERY 电池									
Battery voltage 电流	他电压	360Vdc~600Vdc							
Battery type 电池类型	型	VRLA / Li							
Power module charge current电池模块充电电流		180A (Max.)	200A (Max.)	280A (Max.)	360A (Max.)	400A (Max.)			
SYSTEM FEATURE	ES 系统特性								
Transfer time 转换时间		Utility to Battery: 0ms; Utility to bypass: 0ms							
Overload 过载	Inverter mode 逆变模式	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter							
	Bypass mode 旁路模式	30°C: 135% for long term; 40°C: 125% for long term; >1000%, 100ms							
Overheat 过热		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately							
Low battery voltage	e 电池电压低			Alarm and Switch off					
Self-diagnostics 自	我诊断		Uţ	oon Power On and Software C	ontrol				
Backfeed protection	n 反馈保护	Support							
EPO (Optional) EPO	O选择		Shut dowr	u UPS immediately (Turn to by	pass optional)				
Battery 电池			Advanced Battery Management						
Noise suppression 噪音抑制		Complies with EN62040-3							
•	噪音抑制								
· · · · · · · · · · · · · · · · · · ·			Line Fai						
Noise suppression Audible & visual ala				Complies with EN62040-3	ystem Fault				
Noise suppression Audible & visual ala Status LED & LCD di	arms 声音和视觉警报		Line Mode, Bypass M	Complies with EN62040-3 lure, Battery Low, Overload, S	ystem Fault ult, Overload & UPS Fault				
Noise suppression Audible & visual ala Status LED & LCD di	arms 声音和视觉警报 isplay 状态LED和LCD显示屏 d display LCD显示屏上的读数	RS232, RS485, Paralle	Line Mode, Bypass N Input, Outp	Complies with EN62040-3 lure, Battery Low, Overload, S Mode, Battery Low, Battery Fau	ystem Fault ult, Overload & UPS Fault g, Maintenance	perature sensor(Optional)			
Noise suppression Audible & visual ala Status LED & LCD di Reading on the LCD	arms 声音和视觉警报 isplay 状态LED和LCD显示屏 display LCD显示屏上的读数 erface 通信接口	RS232, RS485, Paralle	Line Mode, Bypass N Input, Outp	Complies with EN62040-3 lure, Battery Low, Overload, S flode, Battery Low, Battery Far out, Battery, Command, Settin	ystem Fault ult, Overload & UPS Fault g, Maintenance	perature sensor(Optional)			
Noise suppression Audible & visual ala Status LED & LCD di Reading on the LCD Communication inte	arms 声音和视觉警报 isplay 状态LED和LCD显示屏 display LCD显示屏上的读数 erface 通信接口	RS232, RS485, Paralle	Line Mode, Bypass N Input, Outp	Complies with EN62040-3 lure, Battery Low, Overload, S flode, Battery Low, Battery Far out, Battery, Command, Settin	ystem Fault ult, Overload & UPS Fault g, Maintenance	perature sensor(Optional)			
Noise suppression Audible & visual ala Status LED & LCD di Reading on the LCD Communication inte ENVIRONMENTA Operating temperat	arms 声音和视觉警报 isplay 状态LED和LCD显示屏 display LCD显示屏上的读数 erface 通信接口 L 环境 ture 工作温度	RS232, RS485, Paralle	Line Mode, Bypass N Input, Outp	Complies with EN62040-3 lure, Battery Low, Overload, S Mode, Battery Low, Battery Far out, Battery, Command, Settin t, Relay card(Optional), SNMP	ystem Fault ult, Overload & UPS Fault g, Maintenance	perature sensor (Optional)			
Noise suppression Audible & visual ala Status LED & LCD di Reading on the LCD Communication inte ENVIRONMENTA Operating temperat Storage temperatur	arms 声音和视觉警报 isplay 状态LED和LCD显示屏 display LCD显示屏上的读数 erface 通信接口 L 环境 ture 工作温度 re 存储温度	RS232, RS485, Paralle	Line Mode, Bypass N Input, Outp	Complies with EN62040-3 lure, Battery Low, Overload, S flode, Battery Low, Battery Far out, Battery, Command, Settin t, Relay card(Optional), SNMP	ystem Fault ult, Overload & UPS Fault g, Maintenance card(Optional), Battery tem	perature sensor(Optional)			
Noise suppression Audible & visual ala Status LED & LCD di Reading on the LCD Communication inte	arms 声音和视觉警报 isplay 状态LED和LCD显示屏 display LCD显示屏上的读数 erface 通信接口 L 环境 ture 工作温度 re 存储温度	RS232, RS485, Paralle	Line Mode, Bypass M Input, Outp I, LBS, BMS, Dry contact port	Complies with EN62040-3 lure, Battery Low, Overload, S Mode, Battery Low, Battery Fai ut, Battery, Command, Settin t, Relay card(Optional), SNMP 0°C ~40°C -25°C ~55°C	ystem Fault ystem Fault ult, Overload & UPS Fault g, Maintenance card(Optional), Battery tem	perature sensor(Optional)			
Noise suppression Audible & visual ala Status LED & LCD di Reading on the LCD Communication inte ENVIRONMENTA Operating temperatur Humidity range 湿	arms 声音和视觉警报 isplay 状态LED和LCD显示屏 display LCD显示屏上的读数 erface 通信接口 L 环境 ture 工作温度 re 存储温度	RS232, RS485, Paralle	Line Mode, Bypass M Input, Outp I, LBS, BMS, Dry contact port	Complies with EN62040-3 lure, Battery Low, Overload, S Mode, Battery Low, Battery Fau tut, Battery, Command, Settin t, Relay card(Optional), SNMP 0 C ~40 C -25 C ~55 C 0 ~95% (Non condensing	ystem Fault ystem Fault ult, Overload & UPS Fault g, Maintenance card(Optional), Battery tem	perature sensor(Optional)			
Noise suppression Audible & visual ala Status LED & LCD di Reading on the LCD Communication into ENVIRONMENTA Operating temperat Storage temperatur Humidity range 湿息 Altitude 海拔 Noise level 噪音水平	arms 声音和视觉警报 isplay 状态LED和LCD显示屏 display LCD显示屏上的读数 erface 通信接口 L 环境 ture 工作温度 re 存储温度		Line Mode, Bypass M Input, Outp I, LBS, BMS, Dry contact port	Complies with EN62040-3 lure, Battery Low, Overload, S Mode, Battery Low, Battery Fau tut, Battery, Command, Settin t, Relay card(Optional), SNMP 0 C ~40 C -25 C ~55 C 0 ~95% (Non condensing	ystem Fault ult, Overload & UPS Fault g, Maintenance card(Optional), Battery tem) >1000m	perature sensor(Optional)			
Noise suppression Audible & visual ala Status LED & LCD di Reading on the LCD Communication inte ENVIRONMENTA Operating temperatus Storage temperatur Humidity range 湿 Altitude 海拔 Noise level 噪音水平 PHYSICAL 物理	arms 声音和视觉警报 isplay 状态LED和LCD显示屏 O display LCD显示屏上的读数 erface 通信接口 L 环境 ture 工作温度 re 存储温度 度范围		Line Mode, Bypass M Input, Outp I, LBS, BMS, Dry contact port (<100 (<73dB	Complies with EN62040-3 lure, Battery Low, Overload, S Mode, Battery Low, Battery Fau tut, Battery, Command, Settin tr, Relay card(Optional), SNMP 0 C ~40 C -25 C ~55 C 0 ~95% (Non condensing	ystem Fault ult, Overload & UPS Fault g, Maintenance card(Optional), Battery tem) >1000m	perature sensor(Optional) 2200×850×2000mm			
Noise suppression Audible & visual ala Status LED & LCD di Reading on the LCD Communication inte ENVIRONMENTA Operating temperatur Humidity range 湿症 Altitude 海拔 Noise level 噪音水平 PHYSICAL 物理 Dimension W×D×H	arms 声音和视觉警报 isplay 状态LED和LCD显示屏 O display LCD显示屏上的读数 erface 通信接口 L 环境 ture 工作温度 re 存储温度 度范围	<70dB	Line Mode, Bypass M Input, Outp I, LBS, BMS, Dry contact port (<100 (<73dB	Complies with EN62040-3 lure, Battery Low, Overload, S Mode, Battery Low, Battery Fau tut, Battery, Command, Settin tr, Relay card(Optional), SNMP 0 C ~40 C -25 C ~55 C 0 ~95% (Non condensing	ystem Fault ult, Overload & UPS Fault g, Maintenance card(Optional), Battery tem) >1000m <74dB				
Noise suppression Audible & visual ala Status LED & LCD di Reading on the LCD Communication into ENVIRONMENTA Operating temperatur Humidity range 湿 Altitude 海拔 Noise level 噪音水 PHYSICAL 物理 Dimension W×D×Ho	arms 声音和视觉警报 isplay 状态LED和LCD显示屏 display LCD显示屏上的读数 erface 通信接口 L 环境 ture 工作温度 re 存储温度 度范围 F	<70dB 1200×850×2	Line Mode, Bypass M Input, Outp I, LBS, BMS, Dry contact port < 100 < 73dB	Complies with EN62040-3 lure, Battery Low, Overload, S Mode, Battery Low, Battery Fau tut, Battery, Command, Settin t, Relay card(Optional), SNMP 0 C ~40 C -25 C ~55 C 0 ~95% (Non condensing 00m, derating required when	ystem Fault ult, Overload & UPS Fault g, Maintenance card(Optional), Battery tem) >1000m < 74dB	2200×850×2000mm			
Noise suppression Audible & visual ala Status LED & LCD di Reading on the LCD Communication into ENVIRONMENTA Operating temperat Storage temperatur Humidity range 湿 Altitude 海拔	arms 声音和视觉警报 isplay 状态LED和LCD显示屏 display LCD显示屏上的读数 erface 通信接口 L 环境 ture 工作温度 re 存储温度 度范围 F	<70dB 1200×850×2	Line Mode, Bypass M Input, Outp I, LBS, BMS, Dry contact port <, 100 <, 73dB 2000mm 1060kg	Complies with EN62040-3 lure, Battery Low, Overload, S Mode, Battery Low, Battery Fau tut, Battery, Command, Settin t, Relay card(Optional), SNMP 0 C ~40 C -25 C ~55 C 0 ~95% (Non condensing 00m, derating required when	ystem Fault ystem Fault ystem Fault ystem Fault g, Maintenance card(Optional), Battery tem > 1000m < 74dB > 2000mm 1658kg	2200×850×2000mm			

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