

SPARK 3P/3P 10-20KVA, 3P/3P 30-40KVA



- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode
- Dual AC inputs
- Emergency power off function (EPO)
- Generator compatible
- Adjustable battery numbers for long-run model
- Maintenance bypass available
- Parallel operation up to 4 units with common battery
- Optional isolation transformer offers full isolation and complete common mode noise rejection

SPARK 33 3-phase in/3-phase out Online UPS Selection Guide

MODEL	10K T *	20K T *	30K T	40K T	
PHASE	3Ph in/ 3Ph out or 3Ph in 1Ph out or 1Ph in 1Ph out		3-phase in / 3-phase out		
CAPACITY	10KVA /10KW	20KVA /20KW	30KVA /30KW	40KVA /40KW	
PARALLEL CAPABILITY	4				
INPUT					
Nominal Voltage	3 x 400 VAC (3Ph+N) / 230 VAC (1Ph+N)		3 x 360/380/400/415 VAC (3Ph+N)		
Voltage Range	110-300 VAC ± 3 % @ 50% load ; 176-276 VAC ± 3 % @ 100% load				
Frequency Range	46~54 Hz or 56~64Hz		40~70 Hz		
Power Factor	≥ 0.99 @ 100% Load				
Harmonic Distortion (THDi)	< 4% at full linear load				
OUTPUT					
Output Voltage	3 x 360/380/400/415 VAC(3Ph+N) or 208/220/230/240 VAC (1Ph+N)		3 x 360*/380*/400/415 VAC (3Ph+N)		
AC Voltage Regulation (Batt. Mode)	± 1%				
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz				
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		50/60 Hz ± 1%		
Current Crest Ratio	3:1 (max.)				
Harmonic Distortion	≤ 2% THD (Linear Load) ; ≤ 5 % THD (Non-linear Load)				
Transfer Time	AC Mode to Batt. Mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Batt. Mode)	Pure Sine wave				
Overload Capability	AC Mode	100-110% for 60 min, 111-125% for 10 min, 126%~150% for 1 min; >150% immediately shutdown			
	Battery Mode				
BYPASS					
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)		3 x 360/380/400/415 VAC (3Ph+N)		
Voltage Range	-30% ~ +20% (Adjustable)		305VAC~457VAC		
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz		46~54Hz or 56~64Hz		
Overload Capability	> 130% 1 minute (default) ; continuously working until breaker protection (optional)				
EFFICIENCY					
AC Mode	95.5%				
ECO Mode	98.5%				
Battery Mode	94.5%				
BATTERY					
Standard Model	Battery Type	12V/9Ah	12V/9Ah	12V/7Ah	12V/9Ah
	Numbers	(10+10) pcs	(16+16) pcs	(16+16) pcs x 2	(16+16) pcs x 2
	Typical Recharge Time	9 hours recover to 90% capacity			
	Charging Current (max.)	1A (Default)		2A (Default)	
	Charging Voltage	+/-136.5 VDC	+/-218 VDC	+/- 13.65 V*N ; ± 1% (N = 16~20)	
Long-run Model	Battery Type	Depending on the applications			
	Numbers	20 pcs	20 pcs	32~40 pcs (Adjustable)	
	Charging Current (max.)	1A ~ 12A (Adjustable)			
	Charging Voltage	+/-13.65V*N (N=8~10)	+/-13.65V*N (N=16~20)	+/-13.65V*N (N = 16~20)	
INDICATORS					
LCD Panel	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions				
PHYSICAL					
Standard Model	Dimension,DxWxH (mm)	630 x 250 x 826		815 x 300 x 1000	815 x 300 x 1000
	Net Weight (kgs)	124	139	207	233
Long-run Model	Dimension,DxWxH (mm)	630 x 250 x 826		815 x 300 x 1000	815 x 300 x 1000
	Net Weight (kgs)	37	43	56	56
ENVIRONMENT					
Operation Temperature	0-40°C				
Operation Humidity	< 95% and non-condensing				
Altitude**	0 ~ 1500m at full load				
Noise Level	Less than 60 dB@1 Meter	Less than 65 dB@1 Meter	Less than 65 dB @ 1 Meter	Less than 70 dB@ 1 Meter	
MANAGEMENT					
Smart RS-232 / USB	Supports Windows® Family, Linux and MAC				
Optional SNMP	Power management from SNMP manager and web browser				

*If output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%.
 **If the UPS is installed or used in a place where the altitude is higher than maximum height, the output power will be derated 1% per 100m.
 Product specifications are subject to change without further notice.