

Safety Power UPS

On-Line Transformer Base Series

4-40Kva 1/1 -3/1

Fully IGBT Design, DSP based control system,
suitable for harsh load and industrial
environment



Detailed Product Description

▲ Introduction:

Safety Power series DSP low frequency UPS is the second generation digital on-line LF UPS. It has been specially designed by POWERTECH Industrial Corporations to provide perfect uninterrupted power for Industrial power grid. A lot of advanced functions and full protections make this UPS one of the best choice for Industrial application.

▲ Main Features:

- Fully Digital control technology
- Online double conversion with PFC
- IGBT rectifier and IGBT Inverter & ISO output transformer
- Online battery disconnection alarm
- Auto-diagnose of UPS failure (easy maintenance)
- Input power factor above 0.99
- Wide input frequency ranges 40-70HZ
- Flexible network monitoring and management
- Large LCD display
- Cold start and AC start function
- EPO function (Emergency Power Off)
- Perfect protections

▲ Technical Specifications:

	Model	SP04	SP06	SP10	SP15	SP20	
	Rating capacity	4KVA/3.2KW	6KVA/4.8KW	10KVA/8KW	15KVA/12KW	20KVA/16KW	
input	Phase	2LINES+G					
	P.F	>0.99			>0.98		
	Rating voltage	208/220V/230V/240V					
	Voltage range	190V/208/220V+/-30%					
	Rating frequency	60Hz/ 50Hz(auto-sensing)					
	frequency range	40-70Hz					
	THDi	<5%					
	Soft start	0 to 100% , 3 to 5 seconds					
	Charge	Float charge	220VDC				
		Current	4 to10A (extendable)				
Protection		Charge voltage, over current protection, short circuit protection					
Battery	Model	Lead acid maintenance free battery					
	Rating voltage	192VDC (external),					
O/P	P.F	0.8(lagging)					
	Phase	2phase 2LINES +N					
	Rating voltage	208/220/230/240VAC					
	Rating frequency	50Hz/60Hz(auto sensing)					
	Frequency	<±0.1Hz in battery mode					
	Voltage	<±1%(static)					
	Crest factor	3:1					
	Wave distortion	Liner load<3%;Nonlinear load<5%					
	dynamic load voltage instant distortion	Liner load<±5%(from 0-50%-100%)					
	Dynamic response recover time	<40ms					
	overload capacity	105%-125 10min;125%-150% 1min; >150%10ms					
	transfer time	0ms(AC-Battery);<4ms(bypass-inverter)					
	Communication	RS232	yes				
AS400		optional					
SNMP		optional					
Dry contact		optional					
RS485		optional					
Modbus		optional					
System	display	LED+LCD					
	Efficiency	100% linear >89%					
	Operate temp	0~40°C					
	Humidity	0~95% (non-condensing)					
	Cooling	Intelligent fan cooling					
	Noise dB	<55 (≤1M)		<60(1M)			
Physics	configuration	Tower, IP21					
	Weight (Kg)	60	100	128	150	218	
	Dimension (W×H×D)mm	210×586×563		460×950×710			