



POWERPACK SE 1/1 SERIES ON-LINE UPS 6-10 kVA 1:1 PHASE

- ✓ High frequency on-line double conversion technology
- ✓ Advanced DSP and 3-level technology
- ✓ Output power factor 1.0
- ✓ Active power factor correction (APFC), input power factor up to 0.99
- ✓ High efficiency 95% (up to 98% in ECO mode)
- ✓ Advanced digital parallel technology



ON-LINE UPS



TOWER



POWER FACTOR



SERVICE



- ✓ Wide input voltage range (110 ~ 288 Vac) and frequency range (40 ~ 70 Hz)
- ✓ 50/60 Hz frequency auto sensing
- ✓ Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- ✓ Dual-input design, supporting independent bypass
- ✓ Flexible battery configuration (settable 16 - 20 pcs batteries)
- ✓ Digitally controlled charger
- ✓ High charging current available (Max. 12 A)
- ✓ Charging voltage and current configured by demands
- ✓ Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- ✓ Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- ✓ Ability to switch on the UPS with batteries
- ✓ Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- ✓ Fan speed varies intelligently with temperature, reducing noise and extending its service life
- ✓ Equipped with self-aging function
- ✓ Compact internal layout, miniaturized the complete unit for small footprint
- ✓ LCD+LED display, multi-functional keys operation, friendly human-machine interface

- ✓ Powerful background software for parameters configuration
- ✓ Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- ✓ Effective software and hardware protection function, robust self-diagnostic function, and abundant event logs for check
- ✓ **Available Options**
- ✓ RS232 and smart card slot included
- ✓ Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms



6/10 kVA (S)

Rear Panel

1. RS232
2. EPO
3. Parallel Port (optional)
4. USB (optional)
5. Temperature Detection (optional)
6. Intelligent Slot
7. Reserved: for manual bypass or battery breaker or outlets etc.
8. Fans
9. Bypass Breaker
10. Input Breaker
11. GND
12. Terminals and Cover

POWERPACK SE 1/1

SERIES ON-LINE UPS

6-10 kVA 1:1 PHASE



MODEL	Capacity	6 kVA / 6000 W	10 kVA / 10000 W
INPUT	Input wiring	Single-phase three-wire (1Φ + N + PE)	
	Rated voltage	208 / 220 / 230 / 240 Vac	
	Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 Vac (no derating)	
	Rated frequency	50 / 60 Hz (auto-sensing)	
	Frequency range	40 ~ 70 Hz	
	Power factor	≥0.99	
	Bypass voltage range	- 40% ~ +15% (settable)	
	Total harmonic distortion (THDi)	≤5%	
OUTPUT	Output wiring	Single-phase three-wire (1Φ + N + PE)	
	Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac	
	Voltage regulation	±1%	
	Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode	
	Waveform	Sinusoidal	
	Power factor	1	
	Total harmonic distortion (THDv)	≤1% (linear load); ≤4% (non-linear load)	
	Crest factor	3:1	
BATTERIES	Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s	
	DC voltage	192 Vdc (192 ~ 240 Vdc settable)	
	Number of battery	16 pcs (16 ~ 20 settable)	
	Inbuilt battery (standard model)	12 V / 7 Ah × 16	12 V / 9 Ah × 16
	Charging current	Standard model: 1 A; 5 A and 12 A (optional)	
SYSTEM	Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery	
	Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode	
	Transfer time	0 ms	
	Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure	
	Max. number of parallel connections	4	
	Communications	RS232, USB / RS485 / parallel card (optional)/ dry contacts / SNMP / battery temperature (optional)	
OTHERS	Display	LCD + LED	
	Operating temperature	0°C ~ 60°C	
	Storage temperature	-25°C ~ 55°C (without battery)	
	Relative humidity	0 ~ 95% (non-condensing)	
	Altitude	≤ 1000 m, derating 1% for each additional 100 m	
	IP rating	IP 20	
	Noise level at 1 m	≤55 dB	≤58 dB
	Dimensions (W × D × H) (mm)	191 × 465 × 711	191 × 495 × 711
	Packaged dimensions (W × D × H) (mm)	310 × 654 × 941	310 × 685 × 941
	Net weight (kg)	53	62
	Gross weight (kg)	61	70



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