

POWER FOR LIFE

# POWERPACK SE 3/1 SERIES ON-LINE UPS 10 -20 kVA 3:1 PHASE



- ✔ 3:1 to 1:1 model settable
- ✔ 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



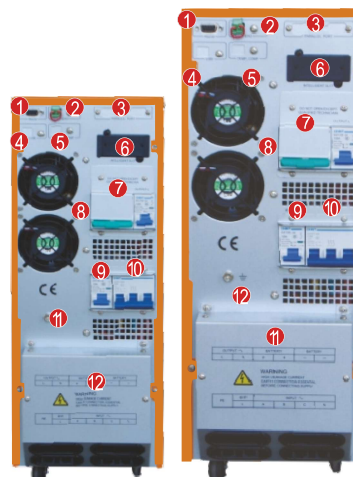
- ✔ Wide input voltage range (190~ 499 Vac) and frequency range (40~70 Hz)
- ✔ 50/60 Hz frequency auto sensing
- ✔ Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- ✔ Dual-input design, supporting independent bypass
- ✔ Flexible battery configuration (settable 16 - 20 pcs batteries)
- ✔ Digitally controlled charger
- ✔ High charging current available (Max. 10 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
- ✔ 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.

**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

15/20 kVA (H)

10 kVA (S)

# POWERPACK SE 3/1

SERIES ON-LINE UPS

10 -20 kVA 3:1 PHASE

MODEL	Capacity	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW
INPUT	Input wiring	Three-phase five-wire (3Φ + N + PE)		
	Rated voltage	380 / 400 / 415 Vac		
	Voltage range	190 ~ 305 Vac (linear derating between 50% and 100% load); 305 ~ 499 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); ≤ 3% (non-linear load)		
	Crest factor	3:1		
	Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s		
BATTERIES	DC voltage	192 Vdc (192 ~ 240 Vdc settable)		
	Number of battery	16 pcs (16 ~ 20 settable)		
	Inbuilt battery (standard model)	12V / 7Ah x 20	/	/
	Charging current	1A (default)	5A (default), 10A (optional)	
	Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery		
SYSTEM	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 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)		
	Display	LCD + LED		
OTHERS	Operating temperature	0°C ~ 40°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	≤58 dB		
	Dimensions (W × D × H) (mm)	191 × 495 × 711 (S)	191 × 495 × 515 (H)	
	Packaged dimensions (W × D × H) (mm)	310 × 685 × 941 (S)	285 × 593 × 618 (H)	
	Net weight (kg)	64 (S)	26.5 (H)	
	Gross weight (kg)	72 (S)	28 (H)	

S means standard model, H means long time model. / All specifications are subject to change without notice.

