

RELIABILTY Power SystemsREL2931G4 RT 10 ~ 20KVA

True Online Dual Conversion UPS System



Features

- 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
- 3:1 to 1:1 model settable
- Wide input voltage range (190 ~ 478 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
- Hot-swappable battery (10 kVA)
- 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%

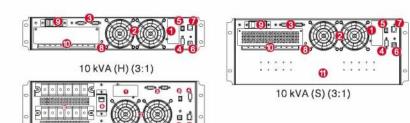
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal 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 log 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. Intelligent Slot
- 2. Fans
- 3. Parallel Port (optional)
- 4. RS232
- 5. EPO
- 6. USB (optional)
- 7. Temperature Detection (optional)
- 8. GND
- 9. Bypass Breaker
- 10. Terminal and Cover
- Battery Pack



15/20 kVA (H) (3:1)



Easy for maintenance, hot-swappable battery (10 kVA)

Specifications

Capacity	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW
INPUT	TORVA/TORW	13 KVA / 13 KW	20 KVA / 20 KW
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Input wiring	Three-phase (ive-wire (3 Φ + N + PE)		
Rated voltage	380 / 400 / 415 Vac		
Voltage range	190 ~ 304 Vac (linear derating between 50% and 100% load); 304 ~ 478 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 (L-N)		
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	102% ~ 110% for 10 min, 110% ~ 125% for 1 min, 125% ~ 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)	12 V / 9 Ah × 16 / /		
Charging current	Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable; 10 A (optional		
	Standard model: 90% capacity restored in 8 hours;		
Recharge time		del: depend on the capacity of	
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,		
Protections	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℃ ~ 55℃ (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)	440 × 650 × 88 (H) 440 × 660 × 176 (S)	440 × 78	0 × 132
Packaged dimensions (W × D × H) (mm)	514 x 696 x 168 (H) 554 x 792 x 418 (S)	554 × 792 × 400	
Net weight (kg)	17 (H), 67 (S)	25.	5

<sup>S means standard model; H means long time model.
All specifications are subject to change without notice.</sup>

Reliability Power Systems Australia

Level 17, 40 Mount St. North Sydney NSW 2060, Australia reliability@reliability-power.com

Reliability Power Systems

Reliability Power Systems Canada

4th Floor 2 County Blvd, Brampton ON L6W 3W8, Canada reliability.ca@reliability-power.com

Reliability Power Systems Europe

New Summer St, Birmingham West Midlands B19, UK reliability.eu@reliability-power.com

Reliability Power Systems Asia Pacific

5/F China Life Tower, No.16 Chaowai St. Chaoyang Dist, Beijing 100020, China reliability.cn@reliability-power.com