


# ener safe

A brand of  legrand®



## INDUSTRIAL SERIES

1~20 kVA / 1:1 phase PF:0.8

### High reliability design

- Double conversion on-line design, which makes the output a very stable wave surge with low distortion, voltage regulation, low distortion and frequency fluctuations, overvoltage protection and overcurrent protection

### Optimization of high-performance battery

- Advanced float charging and charging technology maximizes the utilization of the battery, thus saving the charging and extending the battery life.



TELECOM



DATA CENTER



EQUIPOS MÉDICOS



SERVIDORES



MINERÍA



SEGURIDAD

LÍNEA UPS

[enersafelatam.com](http://enersafelatam.com)



## Battery cold start function

- The UPS can be started directly by battery supply when no utility access is available, which meets the emergency needs of the user. Strong color startability, which can do the cold start operation when full load.

## Wide input range

- Wide input voltage range up to: 165 V, automatic frequency switching to battery mode, which adapts to the areas with harsh environment.
- Wide input frequency range, ensures all types of voltage generation connection stable.

## User-friendly network management

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## Strong protection for load

- Built-in isolation transformer, strong anti-interference ability, provides more comprehensive protection.

## Comprehensive and reliable protection

- Self-diagnosis function, fast and accurate fault diagnosis.
- The multi-sensor design and the built-in temperature sensor ensure the system's stability and reliability. Built-in electronic bypass switch, when the UPS is in bypass mode and continues to provide power to the AC. DC start function. The UPS can be started directly without AC, which meets the emergency needs of the user.





## ESPECIFICACIONES TÉCNICAS

Capacity (VA/Watts)	1kVA / 0.8kW	2kVA / 1.6kW	3kVA / 2.4kW	4kVA / 3.2kW	6kVA / 4.8kW	8kVA / 6.4kW	10kVA / 8kW	12kVA / 9.6kW	15kVA / 12kW	20kVA / 16kW
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INPUT										
Nominal voltage	220/230Vac									
Operating voltage range	165 ~ 275Vac									
Operating frequency range	50/60Hz (±5%)									
Power factor	> 0.97 (with filter)									
Max. input current (a)	8.5	14	17.5	22.5	31	40	50	60	70	90

OUTPUT											
Output voltage	220Vac(±0.5%) / 230Vac(±0.5%)										
Output frequency	50/60Hz(±0.5%)										
Crest factor	3:1 (max)										
Efficiency	>82%			>84%				>85%			
Harmonic distortion (THDv)	<1.5% (linear load)										

BATTERY										
Battery voltage	48Vdc or 192Vdc					192Vdc				

SYSTEM FEATURES										
Transfer time	0 ms ( Line mode→ Battery mode)									
Overload	Load ≤ 125% / 1min; ≤ 150% / 200ms, to Bypass									
Communication interface	RS232, SNMP(optional), Dry contact (optional)									

ENVIRONMENTAL										
Operating temperature	0 ~ 40°C									
Storage temperature	-25 ~ 55°C									
Humidity range	0 ~ 95% (non-condensing)									
Altitude	<1500m									
Noise level	<55dB									

PHYSICAL										
Dimension WxDxH (mm)	230 × 580 × 720 (S) 250 × 500 × 635 (H)					305 × 585 × 864				
Net weight (S/H) (kg)	80/45	85/50	99/54	102/57	108/63	80	82	88	120	130

STANDARDS										
Safety	IEC/EN62040-1; IEC/EN62477-1									
EMC	IEC/EN62040-2; IEC61000-4-2; IEC61000-4-3; IEC61000-4-4; IEC61000-4-5; IEC61000-4-6; IEC61000-4-8									

Specifications are subject to change without prior notice.



UPS



ESTABILIZADORES



SERVICIOS



BATERÍAS



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