



Safepower S

Safepower S UPS series, are suitable for all applications where the protection of critical load are requested, from the simplest to the most complicated installations where the demand for reliability and maintainability is higher.

Safepower S as compatible with industrial installations and most critical Information Technology (IT) thanks to the high levels of performance with double conversion on-line technology according to the VFI-SS-111, as defined by the IEC EN 62040-3.

Easy network connectivity and communication assures constant monitoring and ability to manage and safely control sensible IT loads.

High performance components and technological solutions guarantee a total efficiency up to 96.5% (on-line mode double conversion) and >99% for operation ECO-MODE. The ability to supply loads is of the inductive type which capacitive and delivering the required active power (kW) required by the load characterize the UPS in its market segment.

- Efficiency up to 96,5%
- Output power factor 1 (kVA-kW)
- Input Power Factor at full load: 0.99
- Low voltage distortion <3%
- Design transformer-free
- Parallelable up to 4 units
- Mode Cold Start
- EN50171 compliant
- Configurable frequency converter mode
- Monitoring with SNMP, RS232, USB
- UL option available
- ECO mode operation for energy saving
- UPS10-30k with battery inside
- Wide input voltage range: 208~478Vac
- Wide input frequency range 40~70Hz
- Double input
- The output can meet 100% unbalanced load
- Intelligent fan speed regulation
- HMI interface multilanguage
- Optimization battery group, the quantity of battery
- Long back-up time with additional battery boxes
- Maximum charging current up to 20A (Settable)



TECHNICAL DATA

Model	10K*	20K*	30K	40K	60K	80K	120K	150K	200K
Dimensions (WxDXH) mm	250x900x868				442x850x1100			442x850x1200	
Max. weight (Kg) with / without batteries inside	115/57	171/64	223/71	73	83	147	155	190	230

ELECTRICAL DATA

Output Nominal Power (kVA-kW)	10	20	30	40	60	80	120	150	200
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INPUT DATA

Nominal voltage (Vac)	380/400/415 Vac three-Phase + neutral (50/60Hz)								
THDI (%)	≤ 3 %								
Power factor full load	0,99 pf								

BATTERY DATA

N. Elements Battery (n° blocks)	up 96 to 120 el (16-20)	192-240 (32-40)	Battery Voltage Adjustable (central point N): Optional Voltage: ±180V/±300Vdc(30/32/34/36/38/40/42/44/46/48/50pcs) (36 and 50 pcs no power derating; 32~34 pcs output power factor 0.9; 30 pcs output power factor 0.8;)						
Max Current Charge (A)	up to 20 A		25	40	60				

OUTPUT DATA

Output Nominal voltage (Vac)	380/400/415 Vac Three-Phase + neutral (50-60Hz selectable)								
Static / Dynamic Stability	± 1% / <5%								
Restore within ± 1% In compliance with EN 62040-3, Class 1	20msec								
THDV Voltage distortion with linear load / with no linear load (EN 62040-3)	≤ 1% / ≤ 3%								
Overload (AC mode)	Load ≤ 110%: 60min, ≤ 125%: 10min, ≤ 150%: 1min, > 150% bypass mode								
Efficiency "on line" (%) / ECO mode	up to 96,5 / up to 99%								

GENERAL DATA

User Interface	Graphic Interface Touchscreen 7inch								
Communication port	RS232, RS485, LAN, Modbus, dry contacts, 2x intelligent slots, Remote Emergency Power Off input, Diesel mode input, Backfeed protection output								
Cabinet protection degree / RAL	IP20 / RAL9005								
Operating temperature (C°) / Humidity (%)	0 ± 40 °C / 0-95% non-condensing								
Standards	CE - CEI-IEC EN 62040-1-2-3 (VFI-SS-111 Class) (UL version available on request)								

* Available also in version 1/1 in/out or 3/1 in/out

** In the interests of product improvement SIEL reserves the right to change specifications without notice.



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