Safepower Modular SPM

Safepower Modular SPM is based on modular architecture. Each 50-60 kVA UPS module is housed in a single 19" plug-and-play drawer with hot-swap capability. In the event a dodule needs to be replaced, it can be hot-swapped without affecting the operation of the other active modules.

It's easy to add power: the 3U-high plug-n-power drawers can be hot-swapped allowing a vast vertical expansion (by populating the cabinet vertically) and horizontal expansion (by populating several columns).

Safepower SPM is ideal for IT and server loads in industrial, commercial, healthcare uses and especially for Datacenter applications of all powers. The scalability feature of the UPS allows the installed power to be implemented by growing within the single cabinet or by adding further UPSs until the necessary power is reached.

- Internal N+X Multiple Redundancy
- Power vertical expansion
- Hot-swap Plug-n-Power Scalability
- Ultra compact transformer-free design
- High efficiency and low distortion
- Sleep mode for efficiency optimization
- EN50171 Compliant
- Easy maintenance power module
- 3-level topology design, efficiency up to 96.5%
- Output power factor 1
- UPS can supply power to 100% unbalanced load.
- High adaptability for load, it can connect full inductive load or capacitive load.
- Power module, Bypass module, Monitoring module, control module, all these modules are hot-swappable.
- Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator.
- With 7 inches colorful touch HMI
- Support SNMP, RS232, RS485, BMS, Dry contact interface
- Compatible with VRLA or lithium battery LiFeP04
- Thickened conformal coating, applicable for harsh environment such as high heat, high humidity, dust.

TECHNICAL DATA

FRAME SYSTEM

Size Cabinet in kVA	150K	300K	400K	500K	600K	840K	1080K	1200K
N° of UPS module	3 x 50k 2+1 x 60k	6x50k 5x60k	8x50k 7+1 x 60k	10x50k 8+2 x 60k	12x50k 10x60k	16x50k 14+2 x 60k	20x50k 18+2 x 60k	20x60k
Dimension (WxDxH) mm	600x850x1200	600x850x2000	1200x850x2000			2000x850x2000		2200x850x2000
Weight Cabinet (Kg) full	285	506	808	840	950	1525	1750	1845
Options and accessories	Parallel capacity/redundancy; Parallel with common battery; Independent systems synchronisation; Isolation transformer; External bypass; Battery thermal probe							

MODULE

Output Nominal Power (kVA-kW)	50	60
Input / Output connection	Plug-n-play hot-swappable	
Dimension (WxDxH) mm	440x620x131 (3U)	
Output Nominal Power (kVA-kW)	35	36

INPUT DATA

Nominal voltage	380, 400,415 Vac 3Ph + N (selectable)
Frequency	50/60 Hz (40÷70 Hz)
Power factor	≥ 0,99
Current distortion (THDI)	≤ 3%

BATTERY DATA

Type Battery	Standard VRLA ; optional Lihium battery LiFePO4
Range Battery	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;)

OUTPUT DATA

Nominal voltage	380, 400,415 Vac 3Ph + N (selectable)
Frequency	50/60 Hz (40÷70 Hz)
Output Power factor	1
Voltage regulation	Static ±1% ; Dinamic :± 5% ; Recovery time :< 20 ms
Overload capacity	110% for 60mins; 125% for 10 min (on-line); 150% for 1 min (on-line); 1000% for 1 cycle (bypass)
Efficiency	up to 96,5% ; 99% (ECO Mode)

GENERAL DATA

User Interface	Graphic Interface Touchscreen 7inch
Standard 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 / RAL 9005
Operating temperature	0°C – +40°C
Altitude without derating	<1500 m
Standards	CE, IEC EN 62040-1-2-3 ((VFI-SS-111 Class)

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

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