

SIP 1-3 PRO

1KVA ~ 3KVA
PF 0.9



Features

- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110V ~ 300Vac) and frequency range (40 ~ 70Hz)
- Auto sensing frequency
- 50/60Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 3 h (standard model UPS)

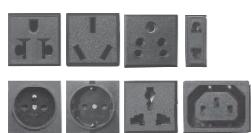
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)

Available Options

- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, 12A charger (2-3KVA only) and built-in isolation transformer

Rear Panel

1. Overcurrent Protection
2. AC Input
3. Modem/Tel/Fax
4. DC Input
5. Outlet
6. Fan
7. RS232
8. USB (optional)
9. EPO (optional)
10. SNMP/AS400 (optional)



Optional sockets



Specifications

MODEL	SIP1000	SIP1000H	SIP2000	SIP2000H	SIP3000	SIP3000H			
Capacity	1 KVA / 900 W		2 KVA / 1800 W		3 KVA / 2700 W				
INPUT									
Rated voltage			208 V / 220 V / 230 V / 240 Vac						
Voltage range	110 ~ 176 Vac	(linear derating between 50% and 100% load)	176 ~ 280 Vac (no derating)	280 ~ 300 Vac (derating 50%)					
Frequency			40 ~ 70 Hz (auto-sense)						
Power factor			≥ 0.99						
Bypass voltage range			-25% ~ +15% (settable)						
OUTPUT									
Voltage			208 V / 220 V / 230 V / 240 Vac (settable via LCD)						
Voltage regulation			± 1%						
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range)		50 / 60 Hz ± 0.1 Hz (battery mode)						
Waveform			Sinusoidal						
Crest factor			3:1						
Harmonic distortion			≤ 2% (linear load); ≤ 5% (non-linear load)						
Transfer time			Mains mode to battery mode: 0 ms						
			Inverter mode to bypass mode: 4 ms (typical)						
Overload capability			105% ~ 125%: transfer to bypass in 1 min;						
			125% ~ 150%: transfer to bypass in 30 s;						
			> 150%: transfer to bypass in 300 ms						
EFFICIENCY									
Mains mode	≥ 90%		≥ 91%		≥ 92%				
Battery mode	≥ 85%		≥ 86%		≥ 87%				
ECO mode	≥ 95%		≥ 96%		≥ 97%				
BATTERIES									
DC voltage	24 V	36 V	36 V	48 V	72 V	72 V	72 V	96 V	96 V
Inbuilt battery	2 × 9 Ah	3 × 7 Ah	/	4 × 9 Ah	6 × 7 Ah	/	6 × 9 Ah	8 × 7 Ah	/
Charging current (max.)	1 A		6 A		1 A		6 A	1 A	6 A
Recharge time							8 h		
ALARMS									
Utility failure					4 s per beep				
Low battery					1 s per beep				
Overload					1 s twice beep				
UPS fault					Long beep				
COMMUNICATIONS									
RS232 (standard) / USB (optional)					Supports Windows® 98 / 2000 / 2003 / XP / Vista / 2008 / Windows® 7 / 8 / 10				
SNMP (optional)					Power management from SNMP manager and web browser				
OTHERS									
Operating temperature					0 ~ 40°C				
Relative Humidity					0 ~ 90% (non-condensing)				
Noise level					≤ 50 dB (1m)				
Dimensions (W × D × H) (mm)	144 × 336 × 214	144 × 414 × 214	144 × 336 × 214		191 × 418 × 335		191 × 464 × 335	191 × 418 × 335	
Packaged dimensions (W × D × H) (mm)	232 × 417 × 318	231 × 492 × 316	232 × 417 × 318		318 × 533 × 471		320 × 573 × 471	318 × 533 × 471	
Net weight (kg)	9.5	13	6	18	25.7	10.5	27.2	32	11
Gross weight (kg)	10.5	14.2	7	19.5	27.4	12	29	34	12.5

●Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208Vac.
●S means standard model, H means long time model.

●All specifications subject to change without notice.
●Custom-made specifications are acceptable.