ALLSAI®

Innovating Power

QUALITY INNOVATION

ALLSAIW-3 PRO

1 KVA - 3 KVA RACK

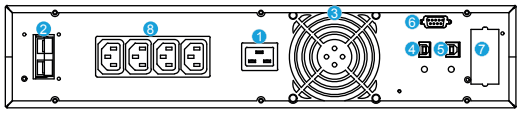
www.allsai.com / info@allsai.com

Features

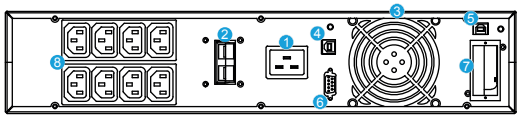
- High frequency on-line double conversion technology.
- DSP (Digital signal processors) control technology.
- Active power factor correction (APFC), input power factor up to 0.99.
- Output power factor 0.9.
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz).
- Auto sensing frequency.
- 50 / 60 Hz frequency conversion.
- Cold start.
- Rear ventilation design and variable speed fan.
- Effective software and hardware protection.
- Quick and stable charging, 90% capacity restored in4h (standard model UPS).
- Linear derating in low voltage input reducing battery discharging times.
- Settable delayed start when power is restored.
- Hot-swappable battery.
- 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).
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, MBS (External maintenance bypass switch).

Rear Panel

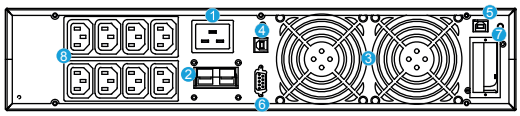
1 AC input socket
2 Battery connector (Optional)
3 Fan
4 USB (Optional)
5 EPO (Optional)
6 RS232
7 Intelligent slot (Optional)
8 Output sockets



1kVAS



2kVAS



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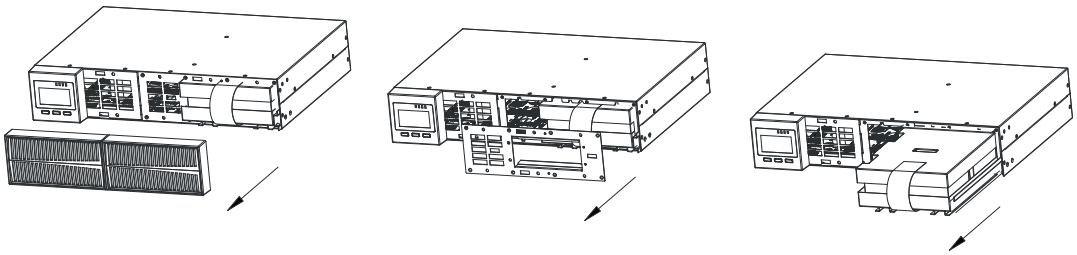

Easy for maintenance, hot-swappable battery

Especifications

MODEL	ALLSAIW-3 PRO 1K RACK		ALLSAIW-3 PRO 2K RACK			ALLSAIW-3 PRO 3K RACK	
Capacity	1 kVA / 900 W		2 kVA / 1800 W			3 kVA / 2700 W	
INPUT							
Rated voltage	208 /220 / 230 /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-sensing)						
Power factor	≥ 0.99						
Bypass voltage range	-25% ~ +15% (settable)						
Total harmonic distortion	≤ 6%						
OUTPUT							
Voltage	208 / 220 / 230 / 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						
Power factor	0.9						
Total harmonic distortion (THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)						
Crest factor	3:1						
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms						
BATTERIES							
DC voltage	24 V (S)	36 V (S)	36 V (H)	48V (S)	72 V (S)	72 V(H)	72 V (S)	96 V (H)
Inbuilt battery	2x9Ah	3x7 Ah	/	4x9 Ah	6x7 Ah	/	6x9 Ah	/
Charging current (max.)	1A		6A	1A		6A	1A	6A
Recharger time	Standar model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery							
SYSTEM							
Efficiency	≥ 90% (Mains mode)			≥ 91% (Mains mode)			≥ 92% (Mains mode)	
	≥ 85% (Battery mode)			≥ 86% (Battery mode)			≥ 87% (Battery mode)	
	≥ 95% (ECO mode)			≥ 96% (ECO mode)			≥ 97% (ECO mode)	
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)							
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection							
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)							
Display	LCD + LED							
Standars	EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1							
OTHERS							
Operating temperature	0°C ~ 40°C							
Storage temperature	-25°C ~ 55 °C (without batteries)							
Relative humidity	0-95% (non-condensing)							
Altitude	≤ 1000 m, derating 1% for each additional 100 m							
IP rating	IP 20							
Noise level at 1m	≤50 dB							
Dimensions (W x D x H) (mm)	440 x 338 x 88	440 x 430 x 88	440 x 468 x 88	440 x 430 x 88	440 x 560 x 88	440 x 468 x 88	440 x 560 x 88	440 x 468 x 88
Packaged dimensions (WxDxH) (mm)	545 x 428 x 194	545 x 560 x 201	545 x 592 x 201	545 x 560 x 201	545 x 690 x 201	545 x 592 x 201	545 x 690 x 201	545 x 592 x 201
Net weight(kg)	10.6	15.5	7.6	18.7	25.6	9.7	26.8	10.1
Gross weight(kg)	11.3	18.6	11.1	21.8	25.8	13.2	29.7	13.6

- Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac.
- S means standard model, H means long time model.
- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.

ALLSAIW-3 PRO 1KVA – 3KVA RACK

ACERCA DE ALLSAI

ALLSAI es una compania con mas de 15 años de experiencia en el mercado latinoamericano destacandose por innovar continuamente en las diferentes soluciones de respaldo de energia.
Actualmente contamos con un amplio portafolio de soluciones que agrega valor al negocio de nuestros clientes, logrando posicionar nuestra marca en toda la región con un sello de calidad y respaldo que hace la diferencia.