



ALLSAI®

Innovating Power



ALLSAI MODAR

RELIABILITY AND EFFICIENCY



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ALLSAI MODAR

ALLSAI MODAR is a customized power supply system designed to provide quality energy to critical AC loads in the most demanding industrial environments like Mining, Utilities, Electrical Substations, Oil & Gas, Petrochemical, etc.

FEATURES:

Reliability:

- True double-conversion
- DSP Technology guarantees high reliability
- Galvanic isolation
- Separated Bypass on each UPS module
- IP54 (Optional IP66)

Efficiency:

- 94% AC Mode, 97% ECO Mode
- THDi 3% (Non linear load)
- Output Power Factor 1

Flexibility:

- Modular Design N+1
- Hot-swappable modules
- Internal Batteries
- Configurations: Single Phase, Three Phase, Single Phase/Three Phase
- Easy maintenance
- Customized system



MODULAR AND HOT-SWAPPABLE DESIGN

Easy power expansion, installation and maintenance
Modar is applied patented modular design to enhance the flexibility of power expansion and maintenance. The power module can be easily removed out from cabinet without disconnecting all wires. This simplifies the maintenance process and reduce the cost effectively.

CUSTOM DESIGN

MODAR UPS can easily form a complete system based on customer's demand. It IS possible customized:

- Voltage configuration: 1Phase/1Phase, 3Phase/3Phase, 3Phase/1Phase
- Galvanic Isolation: Input, Output and Bypass
- Modular Configuration: N+1
- Parallel Operation: Up to 10 units
- Backup Time and Batteries: AGM, OPZV, NICD
- Communication: SNMP, Modbus, Profibus
- Dry Contacts: Alarms
- IP Protection: IP42, IP54, IP66



CUSTOM DESIGN

Output power factor 1.0

For critical applications, the modular UPS with output power factor 1.0 ensures higher efficiency and advanced performance.

50Hz/60Hz frequency converter mode

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.

ECO mode operation for energy saving

ECO mode improves the efficiency up to 97% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.

Emergency power off function (EPO)

In case of any emergency and fire, the EPO control mechanism can instantly shut down the system.

Generator compatible

This UPS can accept generator as power source and still convert perfect power to the connected loads.



ALLSAI MODAR

UPS INDUSTRIAL

6KVA~100KVA

MODEL	MODAR 3/3-10K	MODAR 3/1-10K	MODAR 1/1-10K
PHASE	3 phase in / 3 phase out	3 phase in / 1 phase out	1 phase in / 1 phase out
CAPACITY	10000 VA / 10000 W	10000 VA / 10000 W	10000 VA / 10000 W
PARALLEL CAPABILITY	10	10	10
INPUT			
Nominal Voltage	3 x 208VAC/380VAC/480 (3Ph+N+PE)	3 x 360VAC/380VAC/400VAC/415VAC (3Ph+N+PE)	120VAC/220VAC (1Ph+N+PE)
Voltage Range	190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load	190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load	110-300 VAC @ 50% load 176-276 VAC @ 100% load
Frequency Range	40 Hz ~ 70 Hz		
Power Factor	≥ 0.99 @ 100% load		
THDi	< 4% @ full linear load		
OUTPUT			
Output Voltage	3x208VAC/380VAC/480VAC (3Ph+N+PE)	120VAC/220VAC(1Ph+N+PE)	120VAC/220VAC(1Ph+N+PE)
AC Voltage Regulation (Batt. Mode)	± 1%		
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz		
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Current Crest Ratio	3:1 (max.)		
Harmonic Distortion	≤ 2% THD (Linear Load) ; ≤ 3% THD (Non-linear Load)	≤ 2% THD (Linear Load) ; ≤ 3% THD (Non-linear Load)	≤ 2% THD (Linear Load) ; ≤ 3% THD (Non-linear Load)
Transfer Time	zero		
	Inverter to Bypass	zero	
Waveform (Batt. Mode)	Pure Sinewave		
EFFICIENCY			
AC Mode	94%	94%	94%
ECO Mode	97%	97%	97%
Battery Mode	At Full Load	91%	91%
	Peak	92%	92%
BATTERY CHARGER			
Battery Voltage	± 12V / 9 Ah		
Battery Numbers	16 ~ 20 pcs (adjustable) x 2	16 ~ 20 pcs (adjustable) x 2	16 ~ 20 pcs (adjustable) x 2
Nominal Voltage	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)
Charging Voltage	± 218V	± 218V	± 218V
Typical Recharging Time	9 hours recover to 90% capacity		
Charging Current	± 4A		



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ACERCA DE ALLSAI

ALLSAI es una compañía con más de 15 años de experiencia en el mercado latinoamericano destacándose por innovar continuamente en las diferentes soluciones de respaldo de energía.

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.

