

ATP-ARN Series

Modular Rack Online UPS

- The 1st modular UPS could be used on standard 19" rack.
- True double-conversion.
- DSP technology guarantees high performance.
- Output power factor 1.0.
- Active power factor correction in all phases.
- 50Hz/60Hz frequency converter mode.
- ECO mode operation for energy saving (ECO).
- Emergency power off function (EPO).
- Generator compatible.
- SNMP+USB multiple communications.
- Adjustable battery numbers for long-run application.
- Parallel operation up to 10 units.
- Cold start capability.
- Optional module for extra dry contacts and more card slots.
- Separated Bypass on each UPS module.
- LCD display on each UPS module.











Modular connector box with hot-swappabledesign for power expansion, installation and maintenance

ATP*-ARN is applied patented modular design to enhance the flexibility of power expansion and maintenance. By simply removing fours screws on the connector box, power module can be easily removedout from cabinet without disconnecting all wires. It also simplifies the process of maintenance and replacement to reduce the maintenance cost effectively.



Standard 19" form, tower/rackconvertible design

Designed for easy adjustment, the vertical/horizontal conversiondesign enhances the flexibility and scalability of the modular UPS. 19" form factor suits for the standard rack so it optimizes cost expense to meet the power demands.



Parallel operation with common battery

Compared to general parallel system, multiple ATP-ARN UPSs can form a parallel power backup system by sharing common battery packs which might greatly reduce the expense and reach the same performance.

Adjustable battery design

The number of connected batteries can be adjusted flexibly basedon different power demands.

DSP technology guarantees high reliability

A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance.

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 equipment's.

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 caninstantly shut down the system.

Generator compatible

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

Customized system

Multiple UPSs can easily form a complete system based on customer's demand. Please contact sales directly for the details.



Customized system							
Cabinet Height	17U						
Number of power module	4	2	1				
Number of battery module	0	2	3				

*This customized system will be embedded 1U centralized communication unit.





ATP-ARN Online UPS Selection Guide

MODEL		ATP-ARE 3/3-10K	ATP-ARE 3/1-10K	ATP-ARE 1/1-10K	ATP-ARE 2/2-6K LV	ATP-ARE 3/3-10K LV		
PHASE		3 phase in / 3 phase out	3 phase in / 1 phase out	1 phase in / 1 phase out	2 phase in / 2 phase out	3 phase in / 3 phase out		
CAPACIT	Y	10000 VA / 10000 W	10000 VA / 10000 W	10000 VA / 10000 W	6000 VA / 6000 W	10000 VA / 8000 W		
PARALLEL	CAPABILITY	10	10	10	10	10		
INPUT								
Nominal	Voltage	3 x 360VAC/380VAC/ 400VAC/415VAC (3Ph+N+PE)	3 x 360VAC/380VAC/ 400VAC/415VAC (3Ph+N+PE)	208VAC/220VAC/230VAC /240VAC (1Ph+N+PE)	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2P+N+PE)	3 x173VAC/190VAC/200VAC /208/220VAC (3Ph+N+PE)		
Voltage Range 190-520 VAC (3-pha 305-478 VAC (3-pha				110-300 VAC @ 50% load 176-276 VAC @ 100% load	88-155 VAC (L-N) 152- 269 VAC (L-L)	88-155 VAC (L-N) 152- 269 VAC (L-L)		
Frequenc	y Range 40 Hz ~ 70 Hz							
Power Fa	ctor	≧0.99 @ 100% load						
THDi		<4% @ full linear load						
ουτρυτ								
Output Voltage		360VAC/380VAC/400VAC/ 415VAC (3Ph+N)	208*/220/230/240VAC (L+N)	208*/220/230/240VAC (L+N)	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2Ph+N)	173VAC/190VAC/200VAC (L+N)		
AC Voltag (Batt. Mc	ge Regulation ode)			±1%				
Frequency (Synchron	/ Range ized Range)	46~54Hz or 56~64Hz						
Frequency	Range (Batt. Mode)		!	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 H	z			
Current C	Crest Ratio	3:1 (max.)						
Harmonio	Distortion	\leq 2% THD (Linear Load) ; \leq 3% THD (Non-linear Load)						
Fransfer	AC Mode to Batt. Mode	zero						
Time	Inverter to Bypass	zero						
Wavefori	m (Batt. Mode)			Pure Sinewave				
EFFICIEN	сү							
AC Mode	•	94%	94%	93.5%	91%	92%		
ECO Mod	le	97%	97%	97%	97%	97%		
Battery Mode	At Full Load	93%	92.5%	92%	91%	92%		
	Peak	93.5%	93%	92.5%	91.5%	92%		
BATTERY	CHARGER							
Battery V	oltage			± 12V / 9 Ah				
Battery Numbers		16 ~ 20 pcs (adjustable) x 2	16 ~ 20 pcs (adjustable) x 2	16~20 pcs (adjustable) x 2	8~10pcs (adjustable) x 2	8~10pcs (adjustable) x 2		
Nominal Voltage		+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-96V (12V x 16 pcs)	+/-96V (12V x 16 pcs)		
Maximum Voltage		+/- 240V (12V x 40 pcs)	+/- 240V (12V x 40 pcs)	+/- 240V (12V x 40 pcs)	+/-120V (12V x 20pcs)	+/-120V (12V x 20pcs)		
Minimum Voltage		+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-96V (12V x 16pcs)	+/-96V (12V x 16pcs)		
Charging Voltage		±218V	±218V	± 218V	± 109V	±109V		
Typical Re	echarging Time	9 hours recover to 90% capacity						
Charging	Current			± 4A				
INDICAT	ORS							
LCD/LED	Display	UPS	status, Load level, Battery leve	el, Input / Output voltage, Discl	harge timer, and Fault condition	ons		
PHYSICA	L							
Dimensio	n, D x W x H(mm)			678 x 418 x 129 [3U]	1	1		
Net Weight (kgs)		20.5	20.5	20.5	17.6	21		
ENVIRON	IMENT							
Operating	g Humidity		0-95	% RH @ 0- 40°C (non-conden	sing)			
Noise Lev	vel	Less than 55dB @ 1 Meter	Less than 55dB @ 1 Meter	Less than 55dB @ 1 Meter	Less than 58dB @ 1 Meter	Less than 58dB @ 1 Mete		
MANAGE	EMENT							
Smart RS	-232/USB		Supports Windows [®] 200	00/2003/XP/Vista/2008/7/8/10	, Linux and MAC			

*Derate capacity to 90% of capacity when the output voltage is adjusted to 208VAC. Product specifications are subject to change without further notice

