

The image features a server room with rows of server racks on the right, illuminated with blue light. A large, glowing blue globe is centered in the background, composed of a complex network of lines and nodes. Inside the globe, numerous white icons represent various digital and industrial concepts, such as a house, a server, a gear, a battery, a location pin, a shopping cart, a heart, a sun, a water drop, a lightbulb, a film camera, a video player, a chart, a cloud, a lock, a location pin, a gear, a house, a graduation cap, a battery, a clock, a shield, a power button, a shopping cart, a dollar sign, and a Wi-Fi symbol. Binary code (10101, 01001, 11010) is also visible within the globe.

ARIET ARIKSO VT 20-80kVA UPS

ARIET

ARIET ARIKSO VT 20-80KS

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Power rating

- 20、30、40、60、80kW Tower UPS with modular design;
- 20-320kW (up to 4 paralleling)
- 380/400/415VAC 3Ph+N+PE, 50/60Hz

Key feature:

- **Three-step IGBT** PWM control technology, online mode efficiency up to **96%**, ECO mode efficiency up to **99%**;
- **Output power factor 1**, provides more active power;
- Tower UPS, modular design, MTTR < 30mins;
- Higher density reduces up to **50%** of the footprint;
- Powerful charger declines the charging time dramatically;
- Predictable component lifetime enhances system reliability;
- **Optimized parallel technology**, eliminates single point of failure;
- Optimized battery management (OBM) technology, extended batteries life by 50%;
- Battery **32-44 adjustment** provides a more flexible battery configuration;
- A 5-inch colour touch LCD with **8** languages provides a user-friendly interface for operation.
- Robust design with default dust-proof filter &PCBA coating



20-80KS

ARIET ARIKSO VT 20-80KS Key Spec

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	ARIET ARIKSO VT 20-80KS
Model	20KS/30KS/40KS/60KS/80KS
Input/output voltage	380VAC/400VAC/415VAC
PF	1.0pf
Efficiency-Double conversion	up to 96%
Efficiency-ECO	up to 99%
Input THDi	<5%@ 100% non-linear load
Overload	125% 10mins
Charger Current	20A/30A/40A/60A/80A max.
Battery Voltage	320V-607V & ±16~±22 blocks VRLA
HMI	5 inch Colorful touch screen
Switch	Input\output\bypass\MBS switches
Parallel	up to 4 units
Operating temperature	0 ~ 40°C
Dimension(W*D*H)-mm	330*699*521(20-40k) 331*773*972(60-80k)
Communication	2x Mini-Slot, 1x Emergency Power Off input (NC or NO), 3x Building Alarm inputs, 1x RS232
Certificate	CE, IEC62040-1, IEC62040-2, IEC62040-3,ROHS

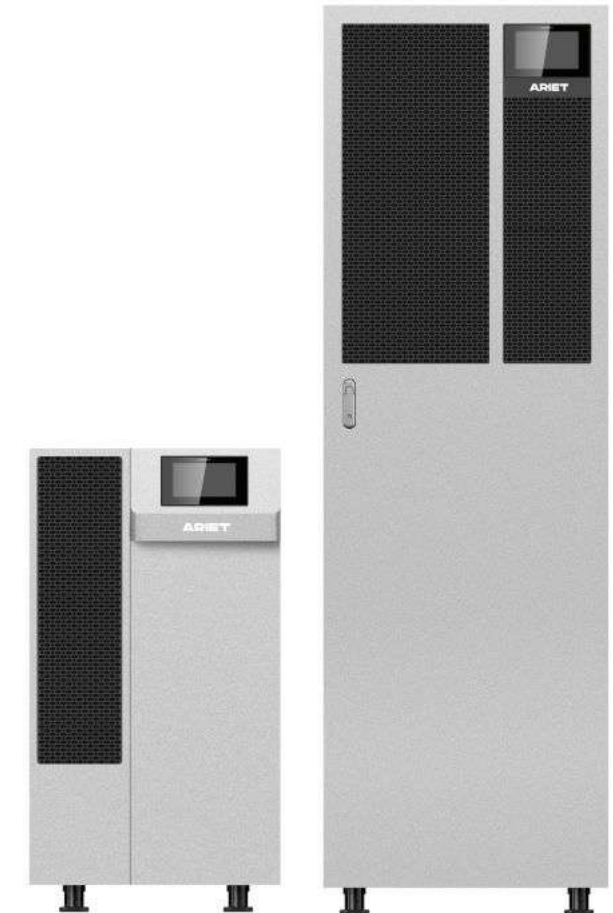
ARIET ARIKSO VT 20-80kVA STD UPS with Internal Battery

Power rating

- 20, 30, 40, 60, 80kW Tower UPS with modular design;
- 380/400/415VAC 3Ph+N+PE, 50/60Hz
- Pre-install battery and without pre-install battery options

Key feature:

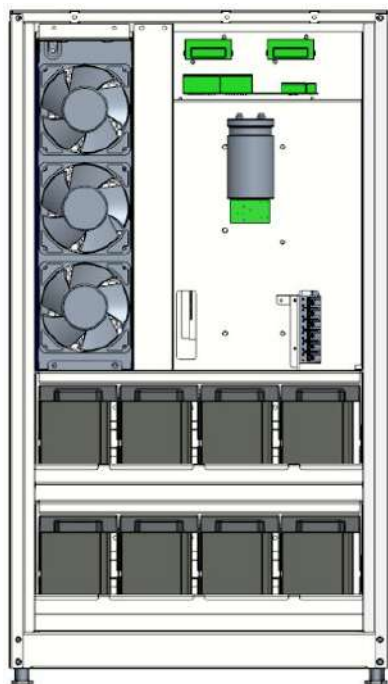
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- Powerful charger declines the charging time dramatically;
- Predictable component lifetime enhances system reliability;
- **Optimized parallel technology**, eliminates single point of failure;
- Optimized battery management (OBM) technology, extended batteries life by 50%;
- 5-inch colour touch LCD with **8** languages provides a user-friendly interface for operation
- Robust design with default dust-proof filter & PCBA coating
- **Standard 3-4mins backup time @100% load**
- **Easy slide & maintenance battery module**
- **Up to 4 EBMs connections for extend backup time.**
- **Pre-install battery and without pre-install battery options for flexible configuration and stock management**



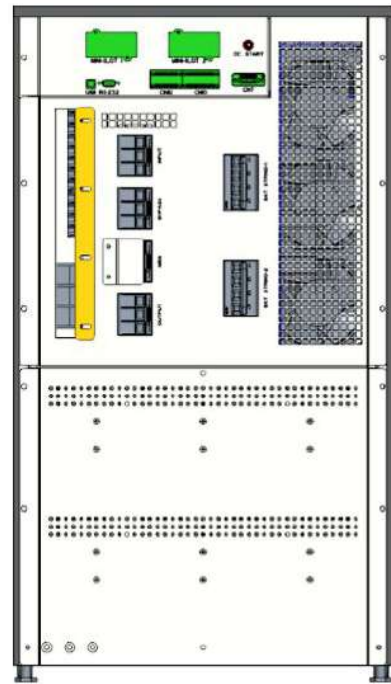
20-80kVA

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ARIET ARIKSO VT 20-80kVA STD UPS with Internal Battery



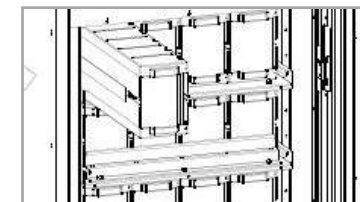
Front view(remove front panel)



Back view

1. 20k-40k share the same frame size, up to 2 layers battery.
2. 60-80k share the same frame size, up to 4 layers battery.
3. Standard version: with internal battery. Default 3.5mins backup time.@100%load

Model	Battery default	Battery option
20K	1*40*8Ah	2*40 max
30K	2*32*8Ah	2*40 max
40K	2*40*8Ah	2*40 max
60K	3*40*8Ah	4*40 max
80K	4*40*8Ah	4*40 max



4. Optional: UPS without internal battery.
 - No pre-install battery, with battery kits(cover, cable, connector ,etc.)
 - Optional battery pack spares for field installation.
 - Support external battery bank connection.
5. Battery pack easy service(front and rear service)

- 1, Pre-install battery and without pre-install battery options for flexible configuration and stock management.
- 2, Support external battery bank.
- 3, Configurable backup time

ARIET ARIKSO VT 20-80kVA STD UPS Key Spec



Feature	ARIET APUS VT STD 20-80kVA	ARIET APUS VT advantage
Models	20/30/40/60/80	
Output Power Factor	1	
Efficiency-Double conversion	96%	Higher efficiency, energy saving.
Efficiency-ECO	ECO, up to 99%	
Internal Battery-pre-install	20K: 1*40*8Ah 30k: 2*32*8Ah 40k: 2*40*8Ah 60K: 3*40*8Ah 80K: 4*40*8Ah	20-80k full range internal battery offer
Internal Battery-w/o battery,with kit	Standard offer	
Battery replacement	Y, battery module	battery module for easy service
Charg Current	20A/30A/40A/60A/80A max.	much bigger current for extend battery bank support.
Overlad @40°C	125%, 10mins	
Switch	Input\output\bypass\MBS \Bat switches	
HMI	5"Colorful touch screen	Colorful touch screen for easy management.
Parallel Units	4	
Dimension-W×D×H (mm)	20-40k 500*859*887mm 60-80k 500*859*1870	
CAP monitoring	Yes, Temperature monitoring	better protection and higher reliability
Key technology	Optimized Battery Management, Optimized Parallel Technology, Predictable component lifetime	Eliminates single point of failure in parallel up to 50% battery life extension. CAP, Battery, Fan lifetime and replacement monitoring.

- Equipped with input, output, bypass, and maintenance switch, providing a more flexible deployment;
- Dual input & Single input adaptive, meet diverse utility power conditions.
- Significantly reduce footprint compared to the previous generation;
- Compatible with lithium battery, maximum 80A powerful charging ability, release lithium battery ultimate performance, and easily achieves up to **500+** cycle life of the battery.

Convenience Operation



Smaller footprint



Compatible with Lithium Battery

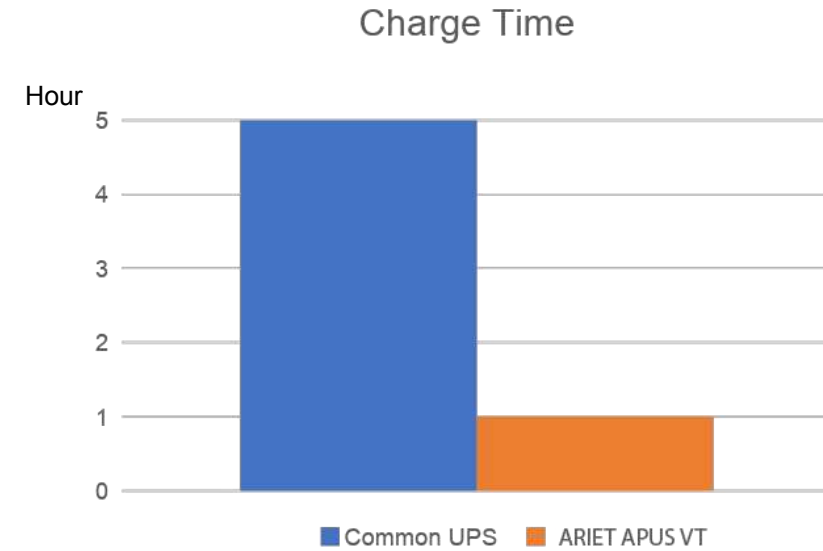
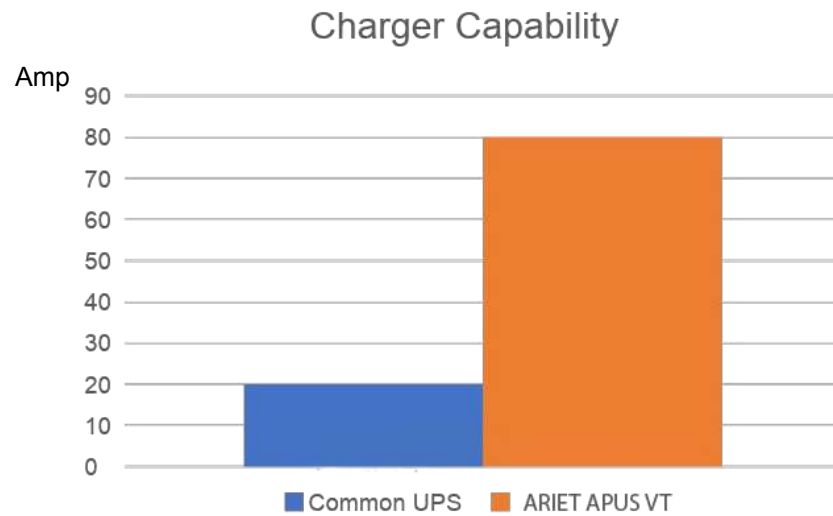


Powerful charging ability, release lithium battery ultimate performance



Typical Application:

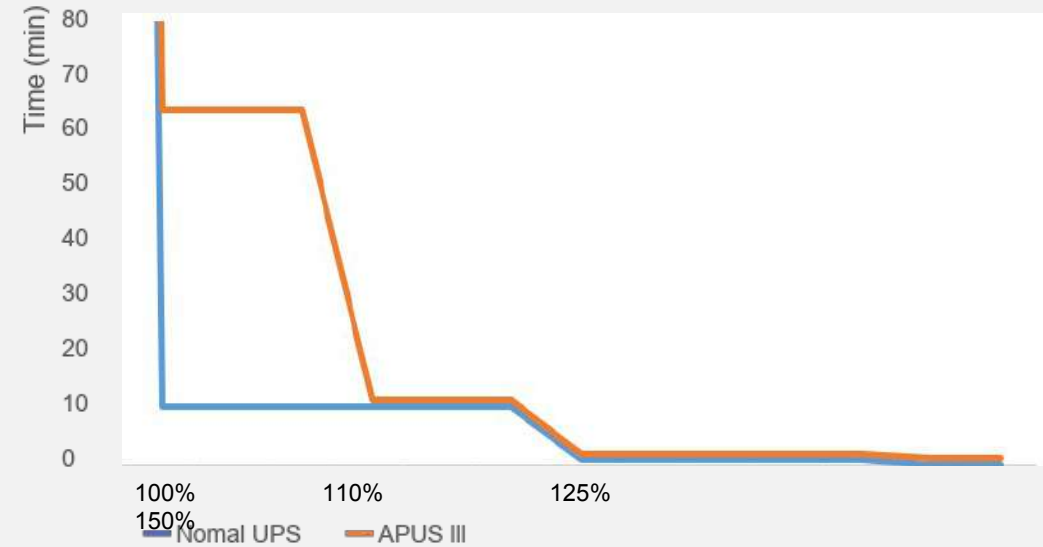
- 80kVA UPS, 64kW load, 461VDC 80Ah lithium battery provides 30min backup time;
- Lithium battery charge/discharge capability: **1C/4C**;



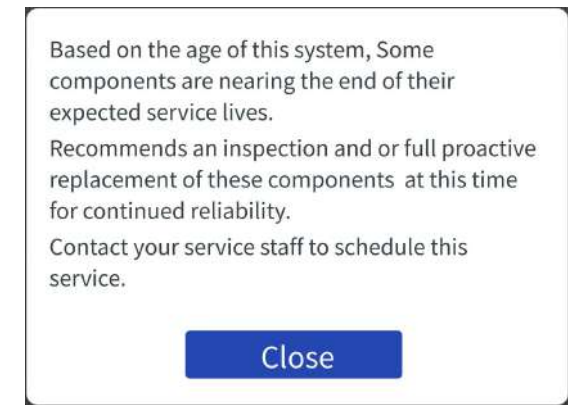
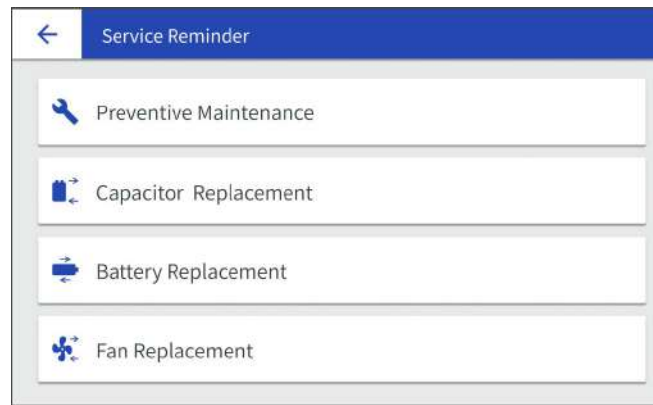
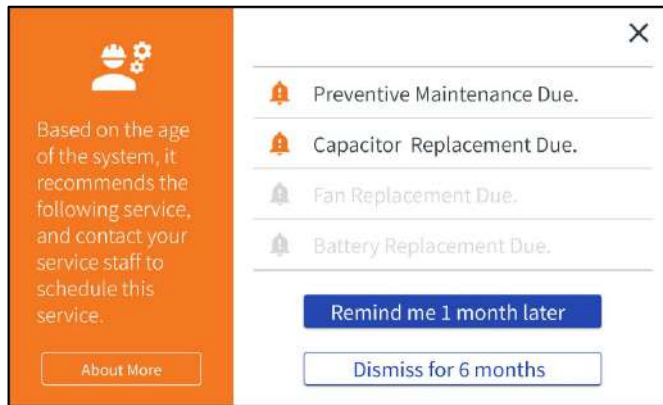
- Regular UPS could provide a maximum 0.2C charging ability, **5h fully charge the lithium battery.**
- ARIET ARIKS0 VT could provide a maximum 80A charging current, **1h fully charge the lithium battery,**
Release lithium battery ultimate performance



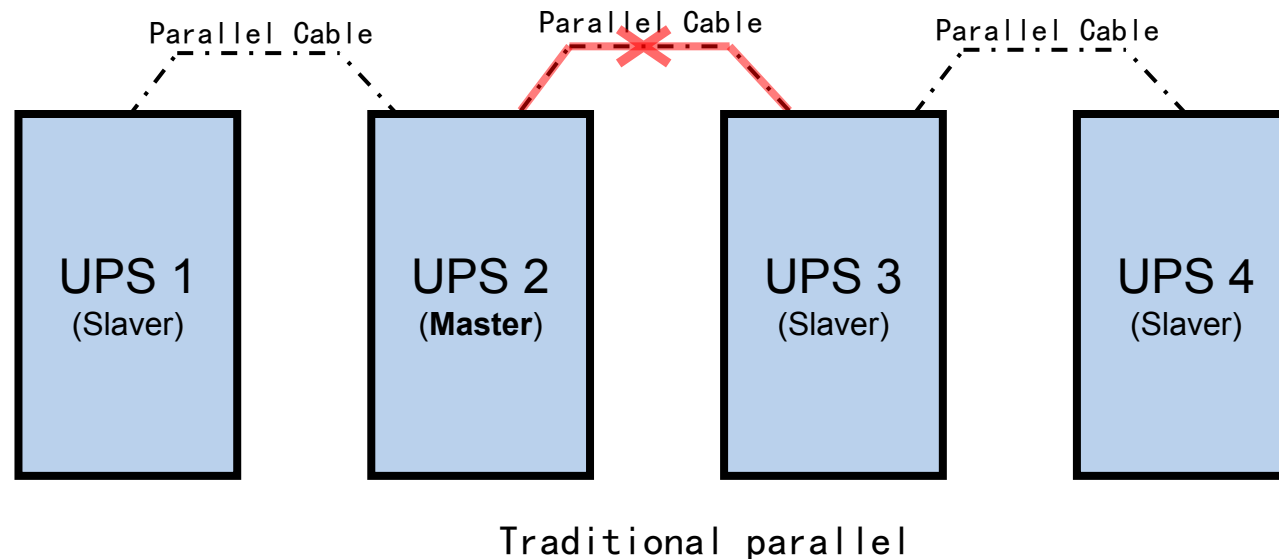
- Dust pollution exists during installation and using environment;
- Standard dustproof filter, commit with dustproof UL 900;
- **All PCBA conformal coating** reduces the risk of internal short circuit;
- Improve reliability in a heavy dusty environment.



- **102-110% overload, 60min** transfer to bypass mode;
- 111-125% overload, 10min transfer to bypass mode;
- 126-150% overload, 1min transfer to bypass mode;
- Higher overload capability, reduce the risk of transfer to bypass.



- Unexpected UPS power outages might be happened by the capacitor, Fan, and Battery lapse without warning;
- ARIET ARIKSO VT provide end of lifetime warning to remind the customer to maintain the UPS;
- Proactive warnings reduce the risk of UPS failure, enhance reliability, and increase service sales and revenue.



- Regular Master-slave parallel solution might cause a single point of failure;
- Phoenixtec OPT ensures UPS continued output without parallel cable, allows one-by-one maintenance without extra maintenance bypass switch;
- **No Master-slave** in the parallel system, **eliminates single point of failure**, enhances reliability.

Lower TCO – Capex

PF 1.0 to Save initial investment.

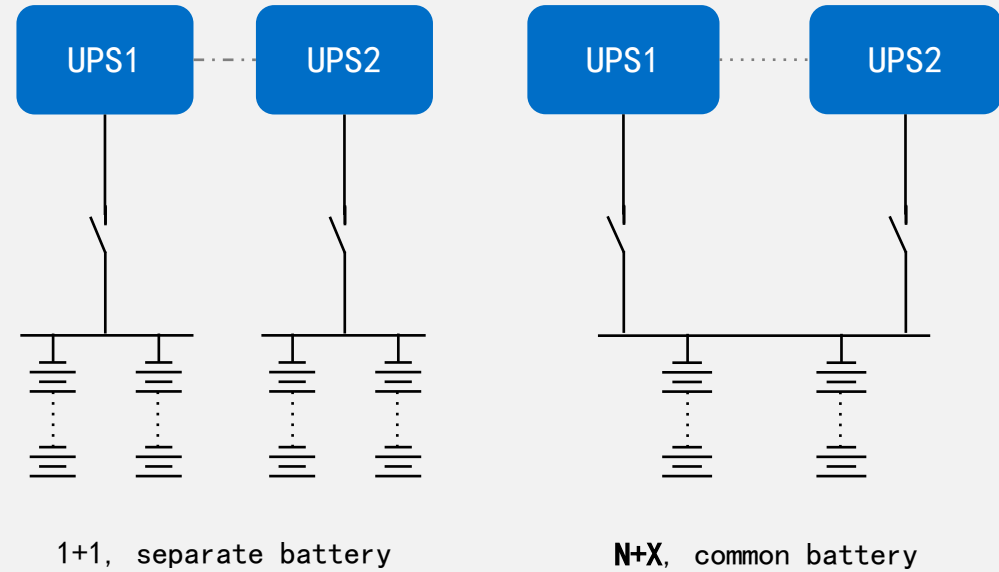


PF 1.0 Vs PF 0.9

Provide **10%** more output active power

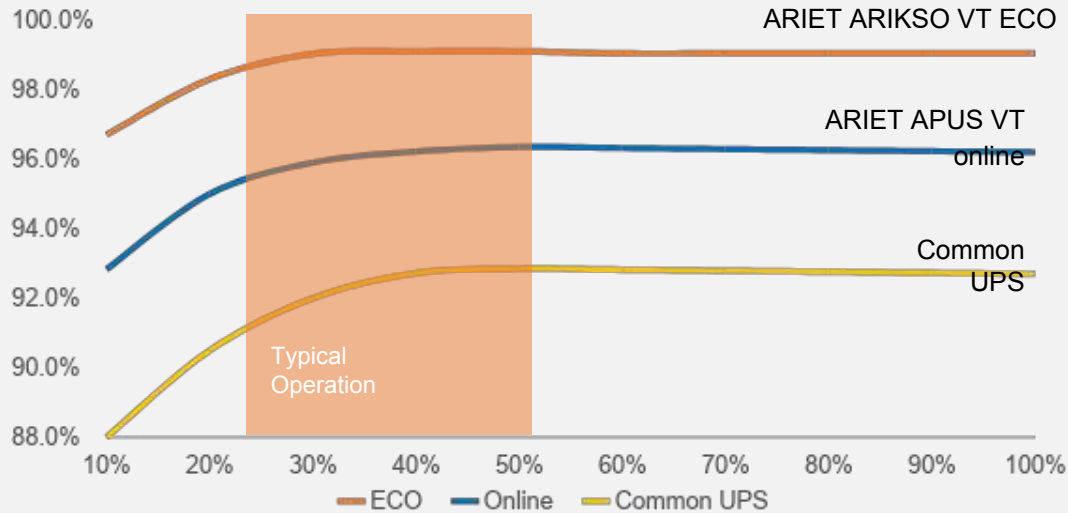
* TCO: Total Cost of Ownership, Capex: Capital Expenditure.

Separate and common battery solutions are available



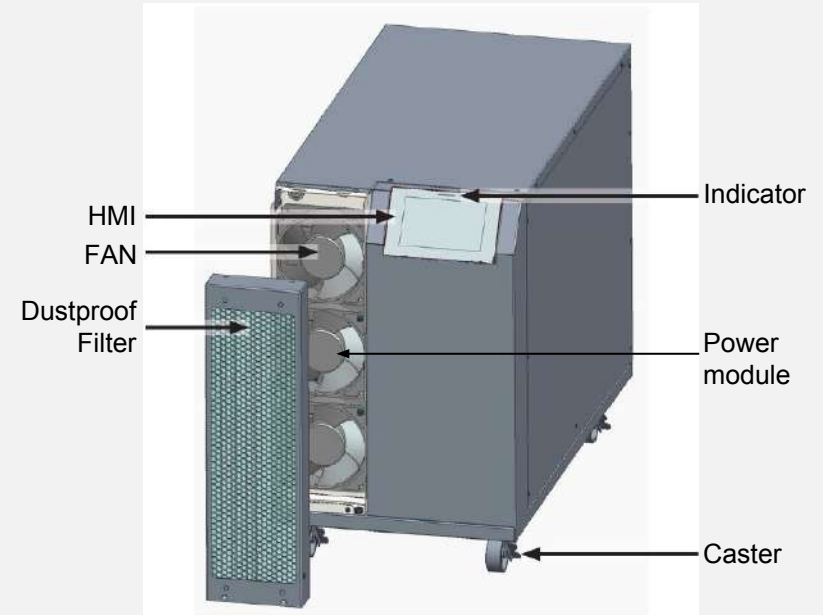
- ARIET ARIKSO VT provides separate battery solution and common battery solution.
- Saving 50% cost more by common battery solution.

High efficiency with reliability

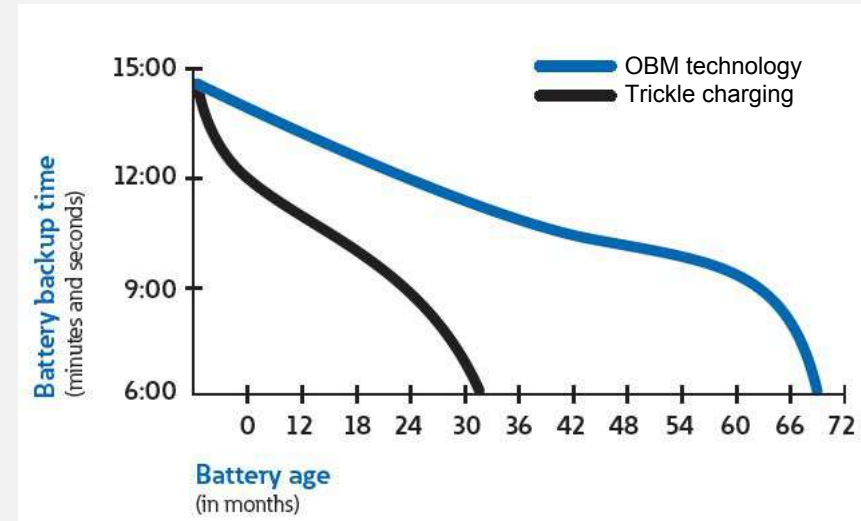
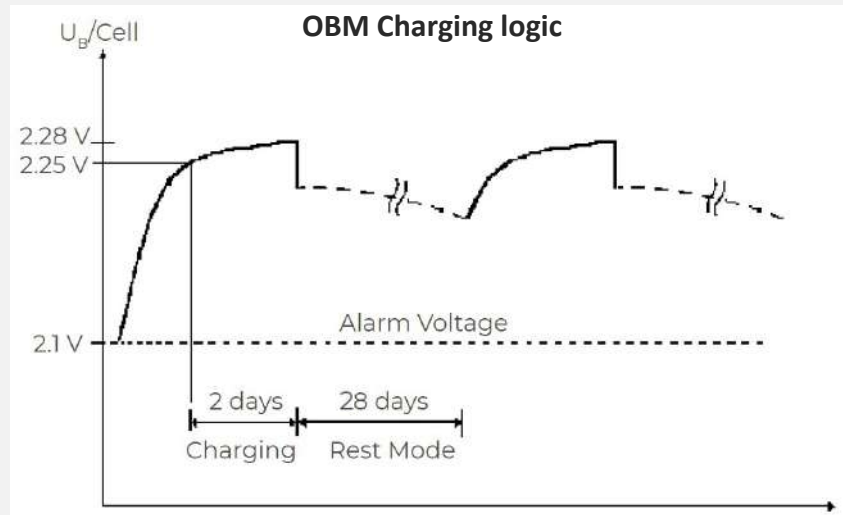


- Double conversion mode efficiency up to **96%**;
- ECO mode efficiency up to 99%, save running expense;
- Reducing **846\$** electricity cost per year. (60% load and 0.09\$/kWh) (from the calculation of average electricity prices in Central Asian countries)

Modular designed, MTTR < 30min



- Power module easy replacement design, modular weight $\leq 25\text{kg}$, easy to maintain by one person;
- Cleanable and fire-resistant dust filter, comply with UL94 and UL900 standards;
- Fan modular design to achieve easy replacement via front access.



- Most UPS is trickle charging the battery, this method **dries up the electrolyte and corrodes**, shortening the battery lifetime.
- OBM brings the customer three-stage charging logic: Charge, Float, and **Rest Mode**.
- OBM increases **50%** of service life compared with batteries that are constantly trickle charged.
- Significant reduce service labor and maintenance costs.