



Rack-Mounted Design

On-Line High Frequency UPS

AKH-RM Series



For more products, please visit:
www.aokuenergy.com

▼ SPECIFICATION 1-3KVA

Model	AKH-1K-RM	AKH-1K-RM-L	AKH-2K-RM	AKH-2K-RM-L	AKH-3K-RM	AKH-3K-RM-L
Rated Capacity	1KVA /1000W		2 KVA /2000W		3 KVA /3000W(for72V) 3 KVA /2400W(for48V)	3 KVA /3000W

INPUT

Input Formats	L+N+PE					
Rated Input Voltage	208/220/230/240VAC					
Voltage Range	110~300VAC (110~176VAC,280~300VAC power limited)					
Frequency Range	50/60Hz±6Hz,± 10Hz (setable)					
Input Power Factor	≥0.99					
Input Harmonic Distortion	≤3% THD(linear load), ≤5% THD(non-linear load) PF=0.8					

OUTPUT

Output Formats	L+N+PE					
Output Voltage	208/220/230/240VAC					
Output Accuracy	±1%					
Output Frequency	AC mode: same as AC ,Battery mode:50/60Hz±1%					
Output Harmonic Distortion	≤1% THD(linear load), ≤3% THD(non-linear load) PF=0.8					
Output Power Factor	1.0					
Transform Time	AC mode to Batt. Mode:0ms,Inverter mode to Bypass mode:4ms					
Load Capacity	AC Mode: 30min@102%~110% Load 10min@110%~130% Load 30s@130%~150% Load 200ms@>150% Load			Battery Mode: 1min@102%~110% Load 10s@110%~130% Load 3s@130%~150% Load 200ms@>150% Load		

MACHINE EFFICIENCY

AC Mode	Full load efficiency 94.5%@220VAC	Full load efficiency 95.5%@220VAC	Full load efficiency 95.5%@220VAC
Battery Mode	Full load efficiency 89.5%@36VDC	Full load efficiency 91.5%@72VDC	Full load efficiency 91.5%@ 96VDC
Battery Mode	Full load efficiency 89.5%@24VDC	Full load efficiency 91.5%@ 48VDC	Full load efficiency 91.5%@ 72VDC

BATTERY

Battery Quantity	7Ah x 2	36V	7Ah x 4	48V or 72V	7Ah x 6	96V
Backup Time	Depend on user's requirement and configuration					
Charge Current	1KRS-3KRS : 1.0A(default) ,1-2A(adjustable) ; External battery back:1KR-3KR: 5.0A(default) ,1-12A(adjustable) .					

WORKING ENVIRONMENT

Ambient Temperature	0~40℃					
Ambient Humidity	20%~95% (No Condensation)					
Storage Temperature	-15~60℃ (Battery:0~40℃)					
Altitude	<1000m,Derating at above 1000m,maximum 4000m,Refer to IEC62040					

DISPLAY

LCD	Working mode/load/battery power/input/output ect.					
-----	---	--	--	--	--	--

STANDARD & CERTIFICATION

Standard & Certification: EN/IEC 61000,EN/IEC 62040,GB/T4943,YD/T 1095,TLC etc.

PHYSICAL

case size (L*W*H)	438*88*385		438*88*505	438*88*385	438*88*505	438*88*385
Weight(KG)	10.4/12.4 (1pcs)	5.8 (1pcs)	14.9/23.6 (1pcs)	7.0 (1pcs)	20.5/25.2 (1pcs)	7.4(1pcs)
Carton size(L*W*H)	533*507*178		533*617*178	533*507*178	533*617*178	533*507*178

COMUNICATION INTERFACE

INTERFACE	1*USB,1*RS232,1*EPO					
-----------	---------------------	--	--	--	--	--

* -RM: Rack Mounted Design -L: Long backup, without Battery inside

Product specifications are subject to change without notice.

▼ SPECIFICATION 6-10KVA

Model		AKH-6K-RM	AKH-6K-RM-L	AKH-10K-RM	AKH-10K-RM-L
Rated Capacity	0.9	6KVA/5.4KW		10KVA/9KW	
	1.0	6KVA/6KW		10KVA/10KW	
INPUT					
Input Formats		L+N+PE			
Rated Input Voltage		208/220/230/240VAC			
Voltage Range		110~300VAC (110~176VAC,264~300VAC power limited)			
Frequency Range		50/60Hz±6Hz, ±10Hz(can be setting)			
Input Power Factor		≥0.99			
Input Harmonic Distortion		≤5% THD(linear load), ≤8% THD(non-linear load) PF=0.8			
OUTPUT					
Output Formats		L+N+PE			
Output Voltage		208/220/230/240VAC			
Output Accuracy		±1%			
Output Frequency		Online mode:according to AC frequency , Battery mode:50/60Hz±1%			
Output Harmonic Distortion		≤2% THD(linear load), ≤5% THD(non-linear load) PF=0.8			
Output Power Factor		1.0			
Switching Time		0ms (w/o ECO function)			
Load Capacity		AC Mode: 30min@102%~110% Load 10min@110%~130% Load 30s@130%~150% Load 500ms@>150% Load		Battery Mode: 10min@102%~110% Load 1min@110%~130% Load 10s@130%~150% Load 500ms@>150% Load	
MACHINE EFFICIENCY					
AC Mode		Maximum efficiency 95.5%, Full load efficiency 95%			
Battery Mode		Maximum efficiency 95.3%, Full load efficiency 94.8%(20pcs batteries)			
Charger					
Battery Quantity		Adjustable from 16/18/20pcs,Default 16PCS(Refer 4.4 for details)			
Battery Type		Lead acid battery			
Charge Current		Adjustable from 1~12A(PF=0.8,Adjustable 1~8A),Default 1A			
Charging Mode		Two/Three Period Charging			
WORKING ENVIRONMENT					
Ambient Temperature		0~40			
Ambient Humidity		20%~95% (No Condensation)			
Storage Temperature		-15~60 (Battery:0~40)			
Altitude		<1000m,Derating at above 1000m,maximum 4000m,Refer to IEC62040			
DISPLAY					
LCD		Working mode/load/battery power/input/output ect.			
STANDARD & CERTIFICATION					
Standard & Certification		EN/IEC 61000,EN/IEC 62040,GB/T4943,YD/T 1095,TLC etc.			
PHYSICAL					
case size (L*W*H)		Rack mount UPS case size : 438*385*88mm ; Battery Pack case size: 438*690*88mm			
Net Weight(KG)		9.5kg (PF=1.0) Not include bettery pack		10.25kg (PF=1.0) Not include bettery pack	
Gross Weight(KG)		11.45kg (PF=1.0) Not include bettery pack		12.2kg (PF=1.0) Not include bettery pack	
Carton size(L*W*H)		Rack mount UPS case size : 533*507*178 mm ; Battery Pack case size: 570*815*230mm			
COMUNICATION INTERFACE					
INTERFACE		1*USB,1*RS232,1*EPO			

* -RM: Rack Mounted Design

-L: Long backup, without Battery inside

Product specifications are subject to change without notice.