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# UPS产品国录 UPS Product Catalog

For the green digital world

# ACT series Intelligent tower UPS

- Power range: 10 ~ 600kVA
- Working mode: three in three out
- Rack/Tower installation
- System level + board level + device level protection, extremely reliable, more adaptable
- Large color touch screen, friendly human-machine interface
- Extreme power density design, easy installation and maintenance





# **ACM Series intelligent modular UPS**

- Power range: 10-600kVA
- Working mode: three in three out/three in one out/one in one out
- Flexible matching: inline/shelf installation method
- Board level + device level protection, extremely reliable, more adaptable
- Large color touch screen, friendly human-machine interface
- Extreme power density design, energy saving and land saving



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# 50~600kVA Modular UPS

Power range

50~600kVA

**Operation** 

3P/3P,Online double conversion



### Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

# **a** Characteristics

- Fully digital control, flexible and robust.
- 7 &10 inch touch LCD, with IoT functions.
- · High reliability and environment adaptability, with protection of components level.
- Intelligent system self-diagnosis, rich fault recording, large capacity of history record storage space.
- Maximum system capacity up to 1.8MVA, the best solution for mega data center.

	Model	AC200/50	AC240/60	AC300/50	AC360/60	AC400/50	AC480/60	AC600/50	AC600/60		
ı	Rate Power	200kVA	240kVA	300kVA	360kVA	400kVA	480kVA	600kVA	600kVA		
	Input				3P5W (3	P+N+PE)					
	Rate Voltage			380/400	/415VAC(L-L);	220/230/240V	AC(L-N)				
	Rate Freq.				50/6	60Hz					
Main input	Input PF				>0	.99					
	Current distortion				THDi<3%(100	% Linear load)					
	Voltage range		304~478V	AC(L-L)full load	1; 304 ~ 228V	AC (L-L) power	derate from 10	0% to 75%			
	Freq. range	40-70Hz									
	Rate voltage		±240VDC								
Battery	Charging capacity	20%*Pout									
	Charging accuracy				±1	%					
	Rate voltage			380/4	00/415VAC(L-L)	220/230/240VA	C(L-N)				
	Voltage range			Range: -40%	5- +25% , Setta	ble, default -20	% ~ +15%				
Bypass		125%, long t	ime operation			110%, long t	ime operation				
	Overload		130%, 10mins <150%,1min				125%, 5 mins :150%,1 min				
		>150 % < 10au +				>150%,					
	Rate voltage			380/400	/415VAC(L-L);	220/230/240V	AC(L-N)				
	Rate Freq.	50/60Hz									
	Output PF	1									
	Voltage accuracy		±1.0%								
	Load response			<	5% (20% - 80%	-20% step load	d)				
	Recovery time	< 20ms (0% - 100% -0% step load)									
Inverter	Output THDu	<1%(linear load),<5% (non-linear load according to IEC 62040-3)									
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms									
	Frequency accuracy	0.1%									
	Synchronize window			Setta	able,±0.5Hz-±	5Hz , default ±	:3Hz				
	Slew rate			Settabl	e, 0.5Hz/S-3H	Iz/S , default 0	.5Hz/S				
	Crest factor				3	:1					
	Phase Accuracy				120°	±0.5°					
	Efficiency			Normal	Mode up to 96%	6; Battery Mode	up to 96%				
	Display	LED + 7 inc	h touch LCD			LED + 10 inc	ch touch LCD				
	Certification- Safety				IEC62040-1,	IEC60950-1					
	Certification- EMS	IEC62	040-2; IEC610	000-4-2(ESD);	IEC61000-4-3(	RS); IEC6100	0-4-4 (EFT);	IEC61000-4-5 (	Surge)		
System	IP degree				IP	20					
	Configuration			USB, RS23	2, RS485, Dry	contact, Cold s	tart, Air filter				
	Option			SNMP card	、AS400 card、	Parallel kit 、	SPD LBS				
	Environment		0-40°C (c	peration); -25°	C ∼70°C (storag	e); 0-95% (Hu	ımidity, non-con	ndensing)			
	Noise(dB)(1 meter)	72dB @ 100% load, 69dB @ 45% load									
Dimonoise	Cabinet(W*D*H)mm	600*100	00*1600		600*100	00*2000		1200*11	00*2000		
Dimension	Module(W*D*H)mm				442*65	59*174					
Weight(kg)	Cabinet	18	5	24	18	25	50	5	78		
(kg)	Module		ı	ı	4	1	ı	ı			
Power Mo	dule rated capacity	50KW	60KW	50KW	60KW	50KW	60KW	50KW	60KW		

# 62.5~2000kVA Modular UPS



### **Power range**

62.5~2000kVA

### (B) Operation

3P/3P,Online double conversion

### **Applications**

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

#### 

- Fully digital control, flexible and robust.
- 10 inch touch LCD, with IoT functions.



- High reliability and environment adaptability, with protection of components level.
- Intelligent system self-diagnosis, rich fault recording, large capacity of history record storage space.
- Maximum system capacity up to 2.0MVA, the best solution for mega data center.

	Model	AC400	AC500	AC800	AC1000	AC1200	AC1500	AC2000			
	Rate Power	400kVA	500kVA	800kVA	1000kVA	1200kVA	1500kVA	2000kVA			
	Input				3P5W (3P+N+PE	)					
	Rate Voltage			380/400/415	/AC(L-L);220/230	/240VAC(L-N)					
N.4 i	Rate Freq.				50/60Hz						
Main input	Input PF				>0.99						
	Current distortion			THDi	<3%(100% Linear	load)					
	Voltage range		304~478VAC(	L-L)full load; 30	4 ~ 228VAC (L-L)	power derate from	m 100% to 75%				
	Freq. range				40-70Hz						
	Rate voltage				±240VDC						
Battery	Charging capacity				20%*Pout						
	Charging accuracy	±1%									
	Rate voltage			380/400/415	/AC(L-L);220/230	/240VAC(L-N)					
	Voltage range	Range: -40%- +25%,Settable, default -20% ~ +15%;									
Bypass				110	%, long time opera	ation					
	Overload				%< load<125%, 5 6% <load<150%,1< td=""><td></td><td></td><td></td></load<150%,1<>						
			>150%,1 second								
	Rate voltage			380/400/415\	/AC(L-L);220/230	/240VAC(L-N)					
	Rate Freq.	50/60Hz									
	Output PF	1									
	Voltage accuracy		±1.0%								
	Load response			<5% (2	0% - 80% -20% st	ep load)					
	Recovery time	< 20ms (0% - 100% -0% step load)									
Inverter	Output THDu	<1%(linear load),<5% (non-linear load according to IEC 62040-3)									
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms									
	Frequency accuracy				0.1%						
	Synchronize window			Settable ,	±0.5Hz-±5Hz, de	efault ±3Hz					
	Slew rate			Settable, 0.	5Hz/S-3Hz/S, de	fault 0.5Hz/S					
	Crest factor				3:1						
	Phase Accuracy				120°±0.5°						
	Efficiency			Normal Mode u	ıp to 96%; Battery	Mode up to 96%	, 0				
	Display			LEC	+ 10 inch touch	LCD					
	Certification- Safety			IEC	62040-1, IEC609	50-1					
	Certification- EMS	IEC6204	0-2; IEC61000-	4-2(ESD); IEC6	1000-4-3(RS); IE	C61000-4-4 (EF	Γ); IEC61000-4-	5 (Surge)			
System	IP degree				IP20						
	Configuration		I	USB, RS232, RS	485, Dry contact,	Cold start, Air filte	er				
	Option			SNMP card、AS4	00 card、Paralle	l kit、SPD、LBS	3				
	Environment		0-40°C (opera	ation); -25°C ~70	°C (storage); 0-9	5% (Humidity, no	n-condensing)				
	Noise(dB)(1 meter)			72dB @ 1	00% load, 69dB @	9 45% load					
Dimension	Cabinet(W*D*H)mm	600*10	000*2000	2000*1000	)*2000	2800*10	00*2000	3600*1000*2000			
	Module(W*D*H)mm				442*659*174						
Weight(kg)	Cabinet	25	50	60	00	85	50	1100			
	) Module				41						
Power Mo	dule rated capacity	50KW	62.5KW	50KW	62.5KW	50KW	62.	5KW			

# 25~300kVA Modular UPS

Power range

25~300kVA

**Operation** 

3P/3P,Online double conversion



### Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

# **a** Characteristics

- Fully digital control, flexible and robust.
- 10 inch touch LCD, with IoT functions.



- High reliability and environment adaptability, with protection of components level.
- Extreme high power density, 30kW in 2U, friendly for space and maintenance.
- Option of 30A charger module for long backup applications.

	Model	AC250/25	AC300/30						
	Rate Power	250kVA/250kW	300kVA/300kW						
	Input	3P5W (3	P+N+PE)						
	Rate Voltage	380/400/415VAC(L-L);	220/230/240VAC(L-N)						
	Rate Freq.	50/6	60Hz						
Main input	Input PF	>0	.99						
	Current distortion	THDi<3%(100	% Linear load)						
	Voltage range	304 ~478VAC(L-L)full load; 304 ~ 228V/	AC (L-L) power derate from 100% to 75%						
	Freq. range	40-70Hz							
	Rate voltage ±240VDC								
Battery	Charging capacity	20%	*Pout						
	Charging accuracy	±1	%						
	Rate voltage	380/400/415VAC(L-L)	)220/230/240VAC(L-N)						
Bypass	Voltage range	Range: -40%- +25% , Setta	ble, default -20% ~ +15%						
Буразз	Overload	110%, long time operation; 1 125% <load<150%,1 min;=""></load<150%,1>							
	Rate voltage	380/400/415VAC(L-L);	220/230/240VAC(L-N)						
	Rate Freq.	50/60Hz							
	Output PF		1						
	Voltage accuracy	±1.	0%						
	Load response	<5% (20% - 80%	-20% step load)						
	Recovery time	< 20ms (0% - 100	0% -0% step load)						
Inverter	Output THDu	<1%(linear load),<5% (non-linear load according to IEC 62040-3)							
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms							
	Frequency accuracy	0.1	1%						
	Synchronize window	Settable, ±0.5Hz-±	:5Hz,default ±3Hz						
	Slew rate	Settable, 0.5Hz/S-3H	Hz/S, default 0.5Hz/S						
	Phase Accuracy	120°	±0.5°						
	Efficiency	Normal Mode up to 95.5%	; Battery Mode up to 95.5%						
	Display	LED + 10 inc	ch touch LCD						
	Certification- Safety	IEC62040-1,	IEC60950-1						
	Certification- EMS	IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(	RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)						
System	IP degree	IP	20						
	Configuration	USB, RS232, RS485, Dry c	ontact, Cold start, Air filter						
	Option	SNMP card, AS400 card,	Parallel kit, SPD, LBS						
	Environment	0-40°C (operation); -25°C ~70°C (storage	ge); 0-95% (Humidity, non-condensing)						
	Noise(dB)(1 meter)	65dB @ 100% load, 62dB @ 45% load							
Dimention	cabinet(W*D*H)mm	600*100	0*2000						
Dimention	module(W*D*H)mm	440*678*8	85 ( 2U )						
	Cabinet	26	60						
Weight(kg)	) Module	2	3						
Power Mo	dule rated capacity	25KW	30KW						
	· · ·	ı	ı						

### 25~180kVA Modular UPS



25~ 180kVA



### **Operation**

3P/3P,3P/1P, 1P/1P,Online double conversion

### Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

#### Characteristics

- Mounted in 19 inch rack, or stand alone.
- o 7 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Extreme high power density, 30kW in 2U, friendly for space and maintenance.
- Option of 30A charger module for long backup applications.



	Model	AC100/25	AC120/30	AC150/25	AC180/30					
	Rate Power	100kVA/100kW	120kVA/120kW	150kVA/150kW	180kVA/180kW					
	Input		3P5W (	3P+N+PE)						
	Rate Voltage		380/400/415VAC(L-L)	; 220/230/240VAC(L-N)						
	Rate Freq.		50.	/60Hz						
Main input	Input PF		>0.99							
put	Current distortion		THDi<3%(10	0% Linear load)						
	Voltage range	304 ~47	8VAC(L-L)full load; 304 ~ 228\	/AC (L-L) power derate from 10	0% to 75%					
	Freq. range		40-	-70Hz						
	Rate voltage		±24	10VDC						
Battery	Charging capacity		20%	%*Pout						
	Charging accuracy		1	-1%						
	Rate voltage		380/400/415VAC(L-l	L)220/230/240VAC(L-N)						
Division	Voltage range		Range: -40%- +25% , Sett	table, default -20% ~ +15%						
Bypass	Overload	110%, long time operation; 110%< load<125%, 5 mins; 125% <load<150%,1 min;="">150%,1 second</load<150%,1>								
	Rate voltage		380/400/415VAC(L-L)	; 220/230/240VAC(L-N)						
	Rate Freq.	50/60Hz								
	Output PF	1								
	Voltage accuracy	±1.0%								
	Load response		<5% (20% - 80% -20% step load)							
	Recovery time		< 20ms (0% - 100% -0% step load)							
Inverter	Output THDu	<1%(linear load),<5% (non-linear load according to IEC 62040-3)								
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms								
	Frequency accuracy	0.1%								
	Synchronize window			-±5Hz, default ±3Hz						
	Slew rate		·	SHz/S , default 0.5Hz/S						
	Phase Accuracy		·	)°±0.5°						
	Efficiency			i%; Battery Mode up to 95.5%						
	Display			ich touch LCD						
	Certification- Safety			1, IEC60950-1						
	Certification- EMS	IEC62040-2 : JEC	61000-4-2(ESD); IEC61000-4-3	,	IEC61000-4-5 (Surge)					
System	IP degree			IP20						
	Configuration			5, Dry contact, Cold start						
	Option	Q	NMP card, AS400 card, Parallel	· • ·	, kit					
	Environment									
		U-4U <sup>-1</sup>	C (operation); -25°C ~70°C (stora	<u> </u>	nuclising)					
	Noise(dB)(1 meter)	65dB @ 100% load, 62dB @ 45% load  482*816*796 (18U, wheels not included)  482*816*1018(23U, wheels not included)								
Dimention	cabinet(W*D*H)mm	402 010 790 (18)	•	,	, writers not included)					
	module(W*D*H)mm			*85 ( 2U )	100					
Veight(kg)		1:	13		132					
_	Module			3						
Power Mo	dule rated capacity	25KW	30KW	25KW	30KW					

# 10~120kVA Modular UPS



**Power range** 

10~120kVA

**Operation** 

3P/3P,3P/1P, 1P/1P,Online double conversion

Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

#### **⊘** Characteristics

- Mounted in 19 inch rack, or stand alone.
- o 7 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Extreme high power density,20kW in 2U, friendly for space and maintenance.
- Option of 30A charger module for long backup applications.



	Model	2-	-Slot Cabin	et	4-	-Slot Cabin	et	6-Slot Cabinet				
	- Wodel	AC020/10	AC030/15	AC040/20	AC040/10	AC060/15	AC080/20	AC060/10	AC090/15	AC120/20		
ı	Rate Power	20kVA	30kVA	40kVA	40kVA	60kVA	80kVA	60kVA	90kVA	120kVA		
	Input				3P	25W (3P+N+F	PE)					
	Rate Voltage			380	0/400/415VAC	C(L-L); 220/2	30/240VAC(L	-N)				
	Rate Freq.					50/60Hz						
Main input	Input PF					>0.99						
·	Current distortion				THDi<3	%(100% Line	ear load)					
	Voltage range		304 ~47	8VAC(L-L)full	load; 304 ~	228VAC (L-L	_) power derat	e from 100%	to 75%			
	Freq. range					40-70Hz						
	Rate voltage					±240VDC						
Battery	Charging capacity	20%*Pout										
	Charging accuracy					±1%						
	Rate voltage			;	380/400/415V	AC(L-L)220/23	0/240VAC(L-N	)				
Bypass	Voltage range		Range: -40%- +25% , Settable, default -20% ~ +15%									
-,,	Overload	110%, long time operation: 110%< load<125%, 5 mins: 125% <load<150%,1 min:="">150%,1 second</load<150%,1>										
	Rate voltage			380	0/400/415VAC	C(L-L); 220/2	30/240VAC(L	-N)				
	Rate Freq.					50/60Hz						
	Output PF	1										
	Voltage accuracy	±1.0%										
	Load response				<5% (20%	s - 80% -20%	step load)					
Inverter	Recovery time	< 20ms (0% - 100% -0% step load)										
inverter	Output THDu	<1%(linear load),<5% (non-linear load according to IEC 62040-3)										
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms										
	Frequency accuracy	0.1%										
	Synchronize window				Settable, ±0	).5Hz-±5Hz ,	default ±3Hz					
	Slew rate			s	ettable, 0.5H	lz/S-3Hz/S,	default 0.5Hz/	S				
	Phase Accuracy					120°±0.5°						
	Efficiency			Norma	al Mode up to	95.5%; Batte	ry Mode up to	95.5%				
	Display				LED -	+ 7 inch touch	n LCD					
	Certification- Safety				IEC62	040-1, IEC60	950-1					
	Certification- EMS	IEC6	2040-2; IEC	61000-4-2(ES	SD); IEC6100	00-4-3(RS);	IEC61000-4-4	(EFT); IEC	61000-4-5 (Sı	ırge)		
System	IP degree					IP20						
	Configuration			US	SB, RS232, R	S485, Dry co	ontact, Cold st	art				
	Option		SN	IMP card, AS	400 card, Par	allel kit, LBS,	Air filter, Bot	tom entry kit				
	Environment		0-40°	C (operation);	-25°C ~70°C	(storage); 0-	-95% (Humidi	ty, non-conder	nsing)			
	Noise(dB)(1 meter)				65dB @ 100	% load, 62dB	@ 45% load					
Dimention	cabinet(W*D*H)mm	482*700*396	(9U, wheels	not included)	482*700*662	(15U, wheels	not included)	482*700*840	(19U, wheels	not included)		
	module(W*D*H)mm				440	)*555*85 ( 2L	۱)					
Weight(kg)	Cabinet		55			92			94			
···cigin(kg)	Module					17						
Power Mo	dule rated capacity	10KW	15KW	20KW	10KW	15KW	20KW	10KW	15KW	20KW		

# **ACT Series**

# 100~600kVA 3-phase Tower UPS

Power range

100~600kVA

**Operation** 

3P/3P,Online double conversion



# O Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

#### Characteristics

- 3P/3P pure online double transformation products, support 380 / 400 / 415V,
   50 / 60Hz power grid system, to provide the ideal power supply quality and load protection.
- High performance and efficiency, input PF>0.99,THDi<3%, efficiency >96%.
- Full DSP control, flexible and robust digital control for rectifier, inverter and battery management.

- Wide range of voltage and frequency,
   adapt to different grid and generator input.
- Intelligent system self-diagnosis scheme, rich fault recording, large capacity of history record storage space.
- Redundancy fan design in power module, increasing the system reliability and tolerance.
- Top/bottom cable entry, flexible for different field installation.

	Model	TT100	TT120	TT180	TT200	TT240	TT300	TT400	TT500	TT600			
	Rate Power	100kVA	120kVA	180kVA	200kVA	240kVA	300kVA		500kVA	600kVA			
	Input	TOURVA	120KVA	TOURVA		240KVA P5W (3P+N+F	l	400kVA	SUUKVA	OUUKVA			
	Rate Voltage			38	0/400/415VA	•		-N)					
Main	Rate Freq.				074007410 171	50/60Hz	.00/240 7/10(1	14)					
Main input	Input PF					>0.99							
'	Current distortion				THDi<3%		ear load )						
	Voltage range	THDi<3%(100% Linear load)  304~478VAC(L-L)full load;304~228VAC (L-L) power derate from 100% to 75%											
	Rate voltage			701710(2 2)11		±240VDC	L) power dore	10070	10 70 70				
Battery	Charging capacity					20%*Pout							
Battery	Charging accuracy					±1%							
	Rate voltage			3	80/400/415V		80/240VAC(L	N)					
Bypass	Voltage range						<u> </u>						
Буразз	3 3		Range: -40%- +25% , Settable, default -20%~+15%;							25% 5 mins			
	Overload		25%, long time of 30% <load <150%<="" td=""><td></td><td>load &lt;130%, 10mi ,300ms</td><td>ns</td><td></td><td>time operation d&lt;150%,1 min</td><td>&gt;150%,1 seco</td><td>•</td></load>		load <130%, 10mi ,300ms	ns		time operation d<150%,1 min	>150%,1 seco	•			
	Rate voltage		380/400/415VAC(L-L); 220/230/240VAC(L-N)										
	Rate Freq.		50/60Hz										
	Output PF	1											
	Voltage accuracy	±1.0%											
	Load response	<5% (20% - 80% -20% step load)											
	Recovery time	< 20ms (0% - 100% -0% step load)											
Inverter	Output THDu	<1% (linear load) ,<5% ( non-linear load according to IEC 62040-3)											
	Overload	110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms											
	Frequency accuracy	0.1%											
	Synchronize window				Settable, ±0	).5Hz-±5Hz,	default ±3Hz						
	Slew rate			S	ettable,0.5F	Iz/S-3Hz/S,	default 0.5Hz	/S					
	Crest factor					3:1							
	Phase Accuracy					120°±0.5°							
	Efficiency			Norm	al Mode up to	96%; Batte	ry Mode up to	96%					
	Display		LED + 7	inch touch LC	D		LE	D + 10 inch to	ouch LCD				
	Certification- Safety				IEC62	2040-1, IEC60	950-1						
	Certification- EMS	IEC6	2040-2; IEC	C61000-4-2(E	SD); IEC610	00-4-3(RS);	IEC61000-4-	4 (EFT); IEC	61000-4-5 (S	urge)			
System	IP degree					IP20							
	Configuration			USB,	RS232, RS48	5, Dry contac	t, Cold start,	Air filter					
	Option			SN	MP card, AS4	00 card, Para	llel kit, SPD,	LBS					
	Environment		0-40℃	(operation);	-25℃~70℃	(storage);	0-95% (Hum	nidity, non-con	densing)				
	Noise(dB)(1 meter)				72dB @ 100	% load, 69dB	@ 45% load						
Dimension	n (W*D*H)mm			600*1000*16	00		600*	1000*2000		1200*1100*2000			
\Maiaht	Cabinet			185			248	2	250	578			
Weight	Module					41							
Power Mo	dule rated capacity	50KW	60	KW	50KW	60	KW	50KW	62.5KW	60KW			

# **ACT Series**

# 10~80kVA 3 phases Tower UPS

**Power range** 

10~80kVA

(I) Operation

3P/3P, Online double conversion

# O Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

#### Characteristics

- o 7 inch touch LCD with IoT functions.
- High power density, small volume.
- o High reliability and environment adaptibility.
- Optional full metal battery strips, with internal batteries capable of configuring up to 16 battery module strips.



Full metal battery strips(Optional)

	Model I	TT010B	TT015B	TT020B	TT030B	TT040B	TT060B	TT080B				
		TT010L	TT015L	TT020L	TT030L	TT040L	TT060L	TT080L				
F	tate Power	10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA				
	Input			3	3P+N+PE	)						
	Rate Voltage			380/400/415V	AC(L-L); 220/23	0/240VAC(L-N)						
	Rate Freq.				5 0/60Hz							
	Input PF				>0.99							
input	Current distortion			THDi<3	% ( 100% Linear	load )						
	Voltage range		304~478VAC(	L-L)full load; 304	~ 228VAC (L-L)	power derate from	n 100% to 75%					
	Freq. range				40-70Hz							
	Rate voltage				±240VDC							
	Model			UPS with in	ternal batteries,12	2VDC/7~9Ah						
Battery	-			UPS for	external batteries	,Settable	I					
-	Internal BAT Quantity			120PCS			160	PCS				
	External BAT			Depend o	on external batter	y, 40PCS						
	Charging capacity	20%*Pout										
	Charging accuracy				±1%							
	Rate voltage	380/400/415VAC(L-L)220/230/240VAC(L-N)										
Bypass	Voltage range	Range: -40%- +25% , Settable, default -20% ~ +15%										
	Frequency range	50/60Hz, Settable: ±1Hz, ±3Hz, ±5Hz										
F	Rate voltage	380/400/415VAC(L-L); 220/230/240VAC(L-N)										
	Rate Freq.	50/60Hz										
	Output PF				1							
	Voltage accuracy	±1.0%										
	Load response	<5% (20% - 80% -20% step load)										
Inverter	Recovery time	< 20ms (0% - 100% -0% step load)										
	Output THDu	<1% ( linear load ) ,<5% ( non-linear load according to IEC 62040-3 )										
	Overload		110	%,1 hour; 125%,	<u> </u>	1 min; >150%,20	00ms					
	Frequency accuracy				0.1%							
	Synchronize window				±0.5Hz-±5Hz, de							
	Slew rate			Settable, 0.5	SHz/S-3Hz/S, de	fault 0.5Hz/S						
	Crest factor				3:1							
	Phase Accuracy				120°±0.5°							
	Efficiency				ip to 96%; Battery		)					
	Display				) + 7 inch touch L							
	Certification Safety				32040-1, IEC6095			- (0 :				
Systom	Certification- EMS	IEC6204	υ-2; IEC61000-	4-2(ESD); IEC61	. , , .	:C61000-4-4 (EFT	); IEC61000-4-5	(Surge)				
	IP degree			LIOD BOSS	IP20							
	Configuration Option				RS485, Dry conta							
	·			NMP card, AS400		-						
	Environment	0-40c (operation); -25°C ~70c (storage); 0-95% (Humidity, n						0=+10=1				
mension	Internal BATExternal BAT			500*864*922			l	65*1250				
V*D*H) m	Internal BAT		250*5		50*782*650							
/eight(kg)	(No include batteries)		14			155		00				
/	External BAT		43	d to asynchronized up		53		35				

# **ACT Series**

10~40kVA 3 phases Rack UPS

**Power range** 

10~40kVA



# Operation

3P/3P,3P/1P, 1P/1P,Online double conversion

### Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

#### Characteristics

- Mounted in 19 inch rack, or install as tower UPS.
- o 7 inch touch LCD with IoT functions.
- Flexible configuration as 3/3,3/1,1/1.
- · High power density, small volume, 30kW in 3U.
- · High reliability and environment adaptibility.



	Model	TT010LR	TT015LR	TT020LR	TT030LR	TT040LR						
	Rate Power	10kVA	15kVA	20kVA	30kVA	40kVA						
	Input			3P5W (3P+N+PE)								
	Rate Voltage		380/400/4	15VAC(L-L); 220/230/24	I0VAC(L-N)							
	Rate Freq.			50/60Hz								
Main	Input PF			>0.99								
input	Current distortion		ТН	Di<3% ( 100% Linear loa	ad)							
	Voltage range	304	~478VAC(L-L)full load;	304 ~ 228VAC (L-L) por	wer derate from 100% to	75%						
	Freq. range			40-70Hz								
	Rate voltage			±240VDC								
Battery	Charging capacity			20%*Pout								
	Charging accuracy			±1%								
	Rate voltage		380/400/	415VAC(L-L)220/230/240	VAC(L-N)							
Bypass	Voltage range		Range: -40%-	+25% , Settable, default	-20% ~ +15%							
	Frequency range	ency range 50/60Hz, Settable: ±1Hz, ±3Hz, ±5Hz										
	Rate voltage		380/400/415VAC(L-L); 220/230/240VAC(L-N)									
	Rate Freq.	50/60Hz										
	Output PF	1										
	Voltage accuracy			±1.0%								
	Load response	<5% (20% - 80% -20% step load)										
Inverter	Recovery time	< 20ms (0% - 100% -0% step load)										
	Output THDu	<1% ( linear load ) ,<5% ( non-linear load according to IEC 62040-3 )										
	Overload		110%,1 hour; 12	5%,10 mins; 150%,1 m	in; >150%,200ms							
	Frequency accuracy			0.1%								
	Synchronize window		Settable	e, ±0.5Hz-±5Hz, defau	ılt ±3Hz							
	Slew rate		Settable,	0.5Hz/S-3Hz/S, defau	lt 0.5Hz/S							
	Crest factor			3:1								
	Phase Accuracy			120°±0.5°								
	Efficiency		Normal Mod	de up to 96%; Battery Mo	ode up to 96%							
	Display			LED + 7 inch touch LCD	)							
	Certification- Safety			IEC62040-1, IEC60950-	1							
0 1	Certification- EMS	IEC62040-2; I	EC61000-4-2(ESD); IE	C61000-4-3(RS); IEC6	1000-4-4 (EFT); IEC61	000-4-5 (Surge)						
System	IP degree			IP20								
	Configuration		USB	, RS232, RS485, Dry co	ntact							
	Option			card, Parallel kit, LBS, A								
	Environment	0-40c	( operation ) ; -25°C ~	-70c ( storage ) ; 0-95	% (Humidity, non-conder	nsing)						
Dime	nsion (W*D*H) mm		440*774	*130 (3U)	I	440*788*174 (4U)						
,	Weight(kg)	27		28	29	38						

# 10~20kVA 3/1 single phase Tower UPS

**B** Power range

**O**peration

10~20kVA

3/1, online double conversion



Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.



#### **Characteristics**

- · Intelligent battery management.
- \* 3-level topology, high performance and efficiency.
- · Online double conversion, full digital control.
- Output PF=1,high load adaptability.

- \* Wide range of input voltage tolerance.
- · Adapt to half-wave load.
- Auto fault waveform recording.
- · Self-aging function to save test energy.

	Model	TS010L	TS015L	TS020L					
	Rate Power	10kVA	15kVA	20kVA					
	Cold start		Default output 50/60Hz						
In	put voltage range		190~499VAC(L-L)						
Ir	nput power factor		≥0.99						
F	requency range		40-70Hz						
(	Output frequency		50/60Hz,self adaption						
Oı	Output power factor 1								
	Rate output 220/230/240VAC								
	Load regulation ±1%								
Output THDu ≤1%,Linear load ; ≤3%,non-linear load according to IEC62040-3									
Trans	sfer time-INV to BYP	0ms							
Effic	iency- normal mode	Max 95%							
Effi	ciency- ECO mode	98%							
	Noise (1 meter)	<55dB	<62dB	<62dB					
Over	rload (normal mode)	110	%: 10mins; 125%: 1min; 150%: 30 s	econds					
	Model		External hattarias 16 24 acttable						
	Quantity		External batteries, 16-24 settable						
Battery	Max charging		5A						
	Rate voltage		Default 192VDC, settable						
	Crest factor		3:1						
	Standard		RS232, RS485, EPO						
	Option	AS400, SNMP card, Parallel	kit, USB, 12A charger, Air filter, Single In	put kit, Maintenance bypass kit					
Dimen	nsion,(W*D*H)mm		190*564*500						
	Weight (kg)		30						



# 10~20kVA 3/1 single phase Rack UPS

Power range

**Operation** 

3/1, online double conversion



### **Applications**

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

#### **Characteristics**

- Intelligent battery management.
- 3-level topology, high performance and efficiency.
- Online double conversion, full digital control.
- Output PF=1,high load adaptability.

- · Wide range of input voltage tolerance.
- · Adapt to half-wave load.
- · Auto fault waveform recording.
- · Self-aging function to save test energy.

	Model	TS010LR	TS015LR	TS020LR					
	Rate Power	10kVA	15kVA	20kVA					
	Cold start		Default output 50/60Hz						
Inp	ut voltage range		190~499VAC(L-L)						
Inj	out power factor		≥0.99						
Fi	requency range		40-70Hz						
0	utput frequency		50/60Hz,self adaption						
Ou	tput power factor		1						
	Rate output		220/230/240VAC						
Load regulation ±1%									
Output THDu ≤1%,Linear load; ≤3%,non-linear load according to IEC62040-3									
Transfer time-INV to BYP 0ms									
Effici	ency- normal mode		Max 95%						
Effic	iency- ECO mode		98%						
N	loise (1 meter)	<55dB	<62dB	<62dB					
Overl	oad (normal mode)	1	10%:10mins;125%:1min;150%:30 second	s					
	Model		External batteries,16-24 settable						
Battery	Quantity		External batteries, 10-24 Settable						
Dattery	Max charging		5A						
	Rate voltage		Default 192VDC, settable						
	Crest factor		3:1						
	Option	AS400, SNMP ca	AS400, SNMP card, Parallel kit, USB, 12A charger, Air filter, Single Input kit						
Dime	nsion, W*D*H(mm)		440*730*173(4U)						
	Weight(kg)		30						

# 6~20kVA Single phase Tower UPS

Power range

(By) Operation

6~20kVA

1P/1P, online double conversion



### Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

#### 

- · Intelligent battery management.
- 3-level topology, high performance and efficiency.
- Online double conversion, full digital control.
- Output PF=1, high load adaptability.

- Wide range of input voltage tolerance.
- · Adapt to half-wave load.
- Auto fault waveform recording.
- Self-aging function to save test energy

	Model	SS006B	SS006L	SS010B	SS010L	SS015L	SS020L			
	Rate Power	6kVA/6kW	6kVA/6kW	10kVA/10kW	10kVA/10kW	15kVA/15kW	20kVA/20kW			
	Cold start			Default out	out 50/60Hz					
In	put voltage range	110~288	3VAC (220/230/240VAC	C); 176VAC~288VAC,fu	II load;176~110 VAC ,p	ower derate from 1009	% to 50%			
Ir	nput power factor			≥0	.99					
F	requency range			40-7	0Hz					
	Output frequency			50/60Hz, se	lf adaption					
Oı	utput power factor				1					
	Rate output			220/230/	240VAC					
	Load regulation			±1	%					
Output THDu ≤1%THD, linear load;≤5%THD, non-linear load										
Transfer time-main to BAT 0ms										
Trans	sfer time-INV to BYP			0r	ns					
Effic	ciency-normal mode	Max 95%								
Eff	iciency-ECO mode	98%								
	Noise (1 meter)	58dB 62dB								
Ove	rload (normal mode)		1	110%:10mins;125%:1	min;150%: 30 seconds	3				
	Model	12VDC/7Ah	External,	12VDC/9Ah	External,	Evternal 1	6-24 settable			
Battery	Quantity	16	16-24 settable	16	16-24 settable	Laterrial, 1	0-24 Settable			
Бацегу	Max charging	1A	5A	1A	5A	5	A			
	Rate voltage			Default 192V	DC, settable					
	Crest			3	:1					
	Display			LED-	+LCD					
	Standard			RS232, EF	PO, RS485					
	Option	AS400, SNMP card, Parallel kit, Maintenance bypass kit, 12A charger, Air filter								
Dime	nsion, W*D*H (mm)	190*605*705	190*605*338	190*605*705	190*605*338	190*56	64*550			
	Weight (kg)	56	14	60	16	3	0			

# 6~10kVA single phase Rack UPS





6~10kVA

1P/1P, online double conversion

### Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

### **⊘** Characteristics

- Intelligent battery management.
- 3-level topology, high performance and efficiency.
- Online double conversion, full digital control.
- Output PF=1,high load adaptability.

- Wide range of input voltage tolerance.
- Adapt to half-wave load.
- Auto fault waveform recording.
- Self-aging function to save test energy
   10kW in 2U, high power density.

	Model	SS006BR	SS006LR	SS010BR	SS010LR		
	Rate Power	6kVA/6kW	6kVA/6kW	10kVA/10kW	10kVA/10kW		
	Cold start		Default out	put 50/60Hz			
Inj	put voltage range	110∼288VAC;	100% load@>176VAC; 90% load@	D>154VAC; 75% load@>132VAC;	50% load@>110VAC		
In	put power factor	≥0.99					
F	requency range		40-7	'0Hz			
Ou	ıtput power factor		1	.0			
	Rate voltage		220/230/240VAC,	200/208VAC(PF=0.9)			
	Load response		≤5% (0% -	100% -0%)			
Output	Recovery time		≤40ms (0%	- 100% -0%)			
	THDu	:	≤1%, linear load ;≤ 5% , non-line	ar load according to IEC62040-3	}		
Transfe	er time-Main to Battery		Or	ns			
Trans	fer time-INV to BYP		Or	ns			
	Crest factor	3:1					
	Battery type	12VDC/7Ah	External battery	12VDC/9Ah	External battery		
	Battery Number	16PCS	16-24 PCS settable	16PCS	16-24 PCS settable		
	Battery voltage		192VDC (default),settable				
	Max charging	1A	5A	1A	5A		
Effici	ency –normal mode		Max	95%			
	Noise (1 meter)		<58	BdB			
0	Normal mode	105%~110%: 10mins,111%~125%: 1 min,126%~150%: 30 seconds					
Overload	ECO mode	<125%: long time,126%~130%:5mins,131%~150%:1min,>150%:200ms					
(	Communication		RS232, EF	PO, RS485			
	Option		AS400, USB, SNMP card, 12	A charger, Parallel kit, Air filter			
Dime	ension W*D*H(mm)	440*660*172	440*580*86	440*660*172	440*580*86		
	Weight(kg)	62.5	16	63	18		

# 1~3kVA online Tower UPS

O Power range

**O**peration

1P/1P, online double conversion

1~3kVA

**⊘** Characteristics

Government, Finance, IT, Education, Transportation,

Broadcasting, Medical,

**Applications** 

Energy, etc.

- High efficiency up to 96%.
- Output PF=1, high load adaptability.
- Wide input voltage range of 110~300Vac.
- Max charging current up to 12A.

	Model	SS001B	SS001L	SS002B	SS002L	SS003B	SS003L		
	Rate Power	1kVA/1kW 1kVA/1kW 2kVA/2kW 2kVA/2kW 3kVA/3kW 3kVA/3kW							
	Cold start	Default output 50/60Hz							
In	nput voltage range	110~300VAC;100% load@176VAC~276VAC, 100%~50% power derating@110VAC~176VAC, 50% load@276VAC~300VAC							
	nput power factor			≥0	.99				
F	Frequency range		5	50/60±5Hz(default),	±3Hz/±10Hz(settable	e)			
O	utput power factor			1	.0				
	Rate voltage		:	220/230/240VAC, 2	200/208VAC(PF=0.9)	)			
Output	Load response			≤5% (0% -	100% -0%)				
Output	Recovery time			≤40ms (0%	- 100% -0%)				
	Output THDu		≤2% , Linear	load ; ≤ 5% non-lin	ear load according to	IEC62040-3			
Transfer	Main to BAT	0							
time	INV to BYP	4ms							
	Crest factor	3:1							
Efficie	ency (normal mode)	Max 96%							
Nc	oise (1 meter)	43dB@<60%load, 47dB@>60%load <50dB@<60%load,<55dB@>60%load <50dB@<60%load,<55dB@>60%load							
	Normal	102%~110%: 30mins, 110%~125%:10mins, 125%~150%: 30 seconds							
Overload	Battery mode	102%~110%: 1min, 110%~125%: 10 seconds, 125%~150%:5 seconds							
	Bypass mode		<130%: long	time, 130%~150%	10mins, 150%~180	0%:5 seconds			
	Model	12VDC/7Ah	Depend on	12VDC/7Ah	Depend on	12VDC/7Ah	Depend on		
	Quantity	3	external battery	6	external battery	8	external battery		
Battery	Max charging	1A	1-12A(settable)	1A	1-12A(settable)	1A	1-12A(settable)		
	Rate voltage	36\	/DC	72\	/DC	96\	/DC		
	Standard			EPO,	RS232				
	Option		SNMP card,	AS400, USB, RS48	35, BMS by dry conta	act, Air filter			
Dime	nsion ,W*D*H(mm)	144*35	55*226	190*400*328	144*398*223	190*400*328	144*398*223		
	Weight (kg)	10.5	4.5	20.5	6	25	6		

### 1~3kVA online Rack UPS



O Power range

Operation 0

1~3kVA

1P/1P, online double conversion

#### Applications

Energy, etc.

Characteristics

Government, Finance, IT, Education, Transportation, Broadcasting, Medical,

- High efficiency up to 96%.
- Output PF=1, high load adaptability.
- Wide input voltage range of 110~300Vac.
- Max charging current up to 12A.

	Model	SS001BR	SS001LR	SS002BR	SS002LR	SS003BR	SS003LR			
	Rate Power	1kVA/1kW	1kVA/1kW	2kVA/2kW	2kVA/2kW	3kVA/3kW	3kVA/3kW			
	Cold start		Default output 50/60Hz							
Inp	out voltage range	110~300VAC;1009	% load@176VAC~276	SVAC, 100%~50% pov	wer derating@110VAC	C~176VAC, 50% load(	@276VAC~300VAC			
In	put power factor			≥0	.99					
F	requency range		5	50/60±5Hz(default),±	±3Hz/±10Hz(settable	)				
Ou	tput power factor			1	.0					
	Rate voltage			220/230/240VAC, 2	00/208VAC(PF=0.9)					
Output	Load response			≤5% (0% - 100°	% -0% step load)					
Output	Recovery time			≤40ms (0% - 100	0% -0% step load)					
	Output THDu	≤2% , Linear load ; ≤ 5% non-linear load according to IEC62040-3								
Transfer	Main to BAT		0							
time	INV to BYP	4ms								
Efficie	ency (normal mode)	Max 96%								
1	Noise (1 meter)	43dB@<60%load, 47dB@>60%load <50dB@<60%load,<55dB@>60%load <50dB@<60%load,<55dB@>60%load					<55dB@>60%load			
	Normal	102%~110%: 30mins, 110%~125%:10mins, 125%~150%: 30 seconds								
Overload	Battery mode	102%~110%: 1min, 110%~125%: 10 seconds, 125%~150%:5 seconds								
	Bypass mode		<130%: long	time, 130%~150%	:10mins, 150%~180	%:5 seconds				
	Model	12VDC/7Ah	Depend on	12VDC/7Ah	Depend on	12VDC/9Ah	Depend on			
	Quantity	3	external battery	6	external battery	6	external battery			
Battery	Max charging	1A	1-12A(settable)	1A	1-12A(settable)	1A	1-12A(settable)			
	Rate voltage	36\	/DC	72\	/DC	72\	/DC			
	Standard			EPO,	RS232					
	Option		SNMP card	,AS400, USB, RS4	85, BMS by dry cont	act, Air filter				
Dime	nsion ,W*D*H(mm)	440*44	40*86	440*580*86	440*440*86	440*580*86	440*440*86			
	Weight (kg)	19	9.5	27.5	9.7	28	10			

# 60~720kVA Modular UPS(480V)

**Power range** 

60~720kVA

**Operation** 

3P/3P,Online double conversion



# Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

### **a** Characteristics

- Fully digital control, flexible and robust.
- 7 & 10 inch touch LCD, with IoT functions.



- High reliability and environment adaptability, with protection of components level.
- Intelligent system self-diagnosis, rich fault recording, large capacity of history record storage space.
- Maximum system capacity up to 1.8MVA, the best solution for mega data center.

	Model	AC240/60-H	AC360/60-H	AC500/62.5-H	AC600/60-H	AC720/60-H				
	Rate Power	240kVA/240kW	360kVA/360kW	500kVA/500kW	600kVA/600kW	720kVA/720kW				
	Input			3P5W (3P+N+PE)						
	Rate Voltage			480VAC(L-L)						
Main	Rate Freq.			50/60Hz						
input	Input PF			>0.99						
	Current distortion	THDi<3%(100% Linear load)								
	Voltage range	384 ~528VAC(L-L)full load; 288 ~ 384VAC (L-L) power derate from 100% to 75%								
	Freq. range	40-70Hz								
	Rate voltage			±240VDC						
Battery	Charging capacity			20%*Pout						
	Charging accuracy									
	Rate voltage	480VAC(L-L)								
	Voltage range	Range: -40%- +25% , Settable, default -20% $^{\sim}$ +15%								
Bypass		125%, long time operation		110%, long	time operation					
	Overload	125%< load <130%, 10mins 130% <load <150%,1min<="" td=""><td></td><td></td><td>&lt;125%, 5 mins d&lt;150%,1 min</td><td></td></load>			<125%, 5 mins d<150%,1 min					
		>150%<10ad < 150%, 1min			o,1 second					
	Rate voltage		I	480VAC(L-L)						
	Rate Freq.			50/60Hz						
	Output PF	30/60H2 1								
	Voltage accuracy	±1.0%								
	Load response	<5% (20% - 80% -20% step load)								
	Recovery time	< 20ms (0% - 100% -0% step load)								
nverter		<1%(linear load),<5% (non-linear load according to IEC 62040-3)								
	Overload	<1%(linear load),<5% (non-linear load according to IEC 62040-3)  110%,1 hour; 125%,10 mins; 150%,1 min; >150%,200ms								
	Frequency accuracy	0.1%								
	Synchronize window	Settable, ±0.5Hz-±5Hz, default ±3Hz								
	Slew rate			0.5Hz/S-3Hz/S, defau						
	Crest factor		·	3:1						
	Phase Accuracy			120°±0.5°						
	Efficiency		Normal Mod	de up to 96%; Battery Mo	ode up to 96%					
	Display	LED + 7 inch touch LCD		LED + 10 inc	ch touch LCD					
	Certification- Safety			IEC62040-1, IEC60950-						
	Certification- EMS	IEC62040-2; II	EC61000-4-2(ESD); IE	C61000-4-3(RS); IEC6	1000-4-4 (EFT); IEC61	000-4-5 (Surge)				
System	IP degree			IP20						
	Configuration		USB, RS232,	RS485, Dry contact, Col	d start, Air filter					
	Option		SNMP card \	AS400 card、 Parallel kit	SPD LBS					
	Environment	0-4	0°C (operation); -25°C ∼	~70°C (storage); 0-95%	(Humidity, non-condensi	ng )				
	Noise(dB)(1 meter)	0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)  72dB @ 100% load, 69dB @ 45% load								
	Cabinet(W*D*H)mm	600*1000*1600 600*1000*2000 1200*1100*2000								
imension			I	442*659*174	1					
	Cabinet	185	248	250	5	78				
eight(kg	) Module			41	1					
ower Me	dule rated capacity	60	KW	62.5KW	60	KW				

# 37.5~1200kVA Modular UPS (208V)



# **Power range**

37.5~ 1200kVA

### (I) Operation

3P/3P,Online double conversion

### Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

#### Characteristics

- Fully digital control, flexible and robust.
- 10 inch touch LCD, with IoT functions.



- High reliability and environment adaptability, with protection of components level.
- Intelligent system self-diagnosis, rich fault recording, large capacity of history record storage space.
- Maximum system capacity up to 1.2MVA, the best solution for mega data center.

	Model	AC300-L	AC600-L	AC900-L	AC1200-L					
	Rate Power	300kVA	600kVA	900kVA	1200kVA					
	Input		3P5W (3P+N+PE)							
	Rate Voltage		200/208/220VAC(L-L)							
Main	Rate Freq.	50/60Hz								
Main input	Input PF		>0.99							
	Current distortion		THDi<3%(100% Linear load)							
	Voltage range	166 ~261VAC(L-L)full load; 125 ~ 166 VAC (L-L) power derate from 100% to 75%								
	Freq. range		40-7	0Hz						
	Rate voltage		±120	VDC						
Battery	Charging capacity		20%*	Pout						
	Charging accuracy		±1	%						
	Rate voltage		200/208/	220VAC(L-L)						
	Voltage range		Range: -40%- +25%, Setta	ble, default -20% ~ +15%						
Bypass			110%, long ti	me operation						
	Overload		110%< load<1 125% <load<< td=""><td></td><td></td></load<<>							
			>150%,1	,						
	Rate voltage	<u> </u>	200/208/	220VAC(L-L)						
	Rate Freq.		50/6	0Hz						
	Output PF	1								
	Voltage accuracy	±1.0%								
	Load response	<5% (20% - 80% -20% step load)								
	Recovery time	< 20ms (0% - 100% -0% step load)								
Inverter	Output THDu	<1%(linear load),<5% (non-linear load according to IEC 62040-3)								
	Overload		110%,1 hour; 125%,10 mins;	150%,1 min; >150%,200ms						
	Frequency accuracy		0.1	%						
	Synchronize window		Settable , ±0.5Hz-±	5Hz, default ±3Hz						
	Slew rate		Settable, 0.5Hz/S-3H	lz/S, default 0.5Hz/S						
	Crest factor		3:	1						
	Phase Accuracy		120°:	±0.5°						
	Efficiency		Normal Mode up to 93%	; Battery Mode up to 93%						
	Display		LED + 10 inc	ch touch LCD						
	Certification- Safety		IEC62040-1,	IEC60950-1						
	Certification- EMS	IEC62040-2; IEC610	000-4-2(ESD); IEC61000-4-3(	RS); IEC61000-4-4 (EFT);	IEC61000-4-5 (Surge)					
System	IP degree		IP:	20						
	Configuration		USB, RS232, RS485, Dry	contact, Cold start, Air filter						
	Option		SNMP card、AS400 card、	Parallel kit 、SPD、LBS						
	Environment	0-40°C (o	operation); -25°C ~70°C (storag	e); 0-95% (Humidity, non-con	idensing)					
	Noise(dB)(1 meter)	72dB @ 100% load, 69dB @ 45% load								
	Cabinet(W*D*H)mm	600*1000*2000	2000*1000*2000	2800*1000*2000	3600*1000*2000					
imension	Module(W*D*H)mm		442*659*174							
, ,	Cabinet	250	600	850	1100					
/eight(kg)	) Module		4	1						
ower Mo	dule rated capacity		37.5	5KW						

# 36~360kVA Modular UPS(208V)

Power range

36~360kVA

(B) Operation

3P/3P,Online double conversion



# **O** Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

### **⊘** Characteristics

- Fully digital control, flexible and robust.
- 7 & 10 inch touch LCD, with IoT functions.



- High reliability and environment adaptability, with protection of components level.
- Intelligent system self-diagnosis, rich fault recording, large capacity of history record storage space.
- Support 200 / 208 / 220V, 50 / 60Hz power grid system, to provide the ideal power supply quality and load protection.

	Model	AC144/36-L	AC21 6/36-L	AC360/36-L					
	Rate Power	144kVA/144kW	216kVA/216kW	360kVA/360kW					
	Input		3P5W (3P+N+PE)						
	Rate Voltage		200/208/220VAC(L-L)						
	Rate Freq.		50/60Hz						
Main input	Input PF	>0.99							
	Current distortion		THDi<3%(100% Linear load)						
	Voltage range	166~261VAC(L-L)full load 125~ 166VAC (L-L) power derate from 100% to 75%							
	Freq. range		40-70Hz						
	Rate voltage		±120VDC						
Battery	Charging capacity		20%*Pout						
	Charging accuracy	±1%							
	Rate voltage		200/208/220VAC(L-L)						
	Voltage range	Range	: -40%- +25% , Settable, default -20% ~ ·	+15%					
Bypass		125%, long time operation	110%, long tim	ne operation					
	Overload	125%< load <130%, 10mins	110%< load<12						
		130% <load <150%,1min<br="">&gt;150%,300ms</load>	50%, 1 min second						
	Rate voltage		<u> </u>						
	Rate Freq.	200/208/220VAC(L-L)							
	Output PF	50/60Hz 1							
	Voltage accuracy	±1.0%							
	Load response	±1.0% <5% (20% - 80% -20% step load)							
	Recovery time								
nverter	Output THDu	< 20ms (0% - 100% -0% step load)  <1%(linear load),<5% (non-linear load according to IEC 62040-3)							
iiveitei	Overload								
	-	110%, 1 h	0.1%	070,2001115					
	Frequency accuracy Synchronize window								
	Slew rate		Settable ±0.5Hz-±5Hz default ±3Hz	/e					
	-		Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/						
	Crest factor Phase Accuracy		3:1 120°±0.5°						
	•			000/					
	Efficiency	LED + 7 inch touch LCD	ormal Mode up to 93%; Battery Mode up to						
	Display	ELD + 7 IIIdi toddi EGD	IEC62040-1, IEC60950-1	ch touch LCD					
	Certification- Safety Certification- EMS	IEC62040 2. IEC64000 4 2/5	:SD); IEC61000-4-3(RS); IEC61000-4-	4 (FFT):  FC64000 4 F (Surre)					
Duntama	-	IEC02040-2; IEC01000-4-2(E	IP20	4 (EFT); IEC61000-4-5 (Surge)					
System	IP degree  Configuration	LICD		A:- £ita-					
	Option		RS232, RS485, Dry contact, Cold start, APP card AS400 card Parallel kit SPD						
	Environment	0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)							
	Noise(dB)(1 meter)	72dB @ 100% load, 69dB @ 45% load							
imension		600*1000*1600	600* 1000*2000	1200*1100*2000					
	Module(W*D*H)mm	405	442*659*174						
eight(kg		185	248	578					
	Module		41						
wer Mo	dule rated capacity		36KW						

# 18~108kVA Modular UPS(208V)



### Power range

18~ 108kVA

### **Operation**

3P/3P,3P/1P, 1P/1P,Online double conversion

### Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

#### Characteristics

- Mounted in 19 inch rack, or stand alone.
- o 7 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Extreme high power density,30kW in 2U, friendly for space and maintenance.
- Option of 30A charger module for long backup applications.



	Model	AC72/18-L	AC108/18-L			
	Rate Power	72kVA/72kW	108kVA/108kW			
	Input	3P5W (3	BP+N+PE)			
	Rate Voltage	200/208/2	20VAC(L-L)			
	Rate Freq.	50/	60Hz			
Main input	Input PF	>(	0.99			
put	Current distortion	THDi<3%(10	0% Linear load)			
	Voltage range	166 ~261VAC(L-L)full load; 125 ~ 166V	/AC (L-L) power derate from 100% to 75%			
	Freq. range	40-	70Hz			
	Rate voltage	±12	OVDC			
Battery	Charging capacity	20%	6*Pout			
	Charging accuracy	±	1%			
	Rate voltage	200/208/2	20VAC(L-L)			
Pyroco	Voltage range	Range: -40%- +25% , Sett	able, default -20% ~ +15%			
Bypass	Overload	110%, long time operation; 125% <load<150%,1 min;<="" td=""><td>110%&lt; load&lt;125%, 5 mins; &gt;150%,1 second</td></load<150%,1>	110%< load<125%, 5 mins; >150%,1 second			
	Rate voltage	200/208/2	20VAC(L-L)			
	Rate Freq.	50/60Hz				
	Output PF	1				
	Voltage accuracy	±1.0%				
	Load response	<5% (20% - 80% -20% step load)				
lavortor	Recovery time	< 20ms (0% - 100% -0% step load)				
Inverter	Output THDu	<1%(linear load),<5% (non-line	ar load according to IEC 62040-3)			
	Overload	110%,1 hour; 125%,10 mins	s; 150%,1 min; >150%,200ms			
	Frequency accuracy	0	.1%			
	Synchronize window	Settable, ±0.5Hz-	±5Hz, default ±3Hz			
	Slew rate	Settable , 0.5Hz/S-3	Hz/S, default 0.5Hz/S			
	Phase Accuracy	120	°±0.5°			
	Efficiency	Normal Mode ≥93%	; Battery Mode ≥93%			
	Display	LED + 7 in	ch touch LCD			
	Certification- Safety	IEC62040-1	, IEC60950-1			
	Certification- EMS	IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3	3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)			
System	IP degree	II	P20			
	Configuration	USB, RS232, RS485	, Dry contact, Cold start			
	Option	SNMP card, AS400 card, Parallel kit,	LBS, Air filter, Bottom entry kit			
	Environment	0-40°C (operation); -25°C ~70°C (stora	age); 0-95% (Humidity, non-condensing)			
	Noise(dB)(1 meter)	65dB @ 100% load, 62dB @ 45% load				
Dimention	cabinet(W*D*H)mm	482*816*796 (18U, wheels not included)	482*816*1018(23U, wheels not included)			
	module(W*D*H)mm	440*678	*85 ( 2U )			
Moight/k~	Cabinet	113	132			
Weight(kg)	Module	2	3			
Power Mo	dule rated capacity	188	«W			

# 12~72kVA Modular UPS(208V)



### **Power range**

12~72kVA

# Operation |

3P/3P,3P/1P, 1P/1P,Online double conversion

# **O** Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

### **⊘** Characteristics

- Mounted in 19 inch rack, or stand alone.
- o 7 inch touch LCD, with IoT functions.
- High reliability and environment adaptability, with protection of components level.
- Extreme high power density,20kW in 2U, friendly for space and maintenance.
- Option of 30A charger module for long backup applications.



https://doi.org/10.1001/j.com/s0.1001/j.co		Model	AC024/12-L	AC048/12-L	AC72/12-L					
Main		Rate Power	24kVA/24kW	48kVA/48kW	72kVA/72kW					
Rate Freq.		Input		3P5W (3P+N+PE)						
Main   Input   Pput   PF		Rate Voltage		200/208/220VAC(L-L)						
Imput   Process   Proces		Rate Freq.		50/60Hz						
Current distortion		Input PF		>0.99						
Freq. range	mpat	Current distortion		THDi<3%(100% Linear load)						
Rate voltage		Voltage range	166 ~261VAC(L-L)full load; 125 ~ 166VAC (L-L) power derate from 100% to 75%							
Battery   Charging capacity   20%*Pout		Freq. range								
Charging accuracy		Rate voltage		±120VDC						
Rate voltage   200/208/220VAC(L-L)	Battery	Charging capacity		20%*Pout						
Notage range   Range: -40% - +25%		Charging accuracy		±1%						
Dyentoad		Rate voltage		200/208/220VAC(L-L)						
Noverload	D	Voltage range	Range:	-40%- +25% , Settable, default -20% ~ ·	+15%					
Rate Freq. Output PF Voltage accuracy Load response Recovery time Percovery time Output THDu Overload Overload Overload Overload Frequency accuracy Synchronize window Siew rate Phase Accuracy Display Certification- Safety Certification- Safety Option Option Option Option SNMP card, AS400 card, Parallel kit, LBS, Air filter, Bottom entry kit Environment Noise(dB)(1 meter) Noise(dB)(1 meter) Output THDu Overload Ov	вураss	Overload			5 mins:					
Output PF		Rate voltage		200/208/220VAC(L-L)						
Voltage accuracy		Rate Freq.	50/60Hz							
Load response		Output PF	1							
Recovery time		Voltage accuracy	±1.0%							
Output THDu		Load response	<5% (20% - 80% -20% step load)							
Output THDu	l	Recovery time	< 20ms (0% - 100% -0% step load)							
Frequency accuracy  Synchronize window  Settable, ±0.5Hz/±5Hz, default ±3Hz  Settable, ±0.5Hz/±5Hz, default ±3Hz  Settable, ±0.5Hz/±3Hz/S, default 0.5Hz/S  Phase Accuracy  Efficiency  Display  Certification- Safety  Certification- EMS  IP degree  Configuration  Option  Environment  Noise(dB)(1 meter)  Dimention  Cabinet (W*D*H)mm  module(W*D*H)mm  module(W*D*H)mm  Module  Settable, ±0.5Hz/±5Hz, default ±3Hz  Settable, ±0.5Hz/±5-3Hz/S, default 0.5Hz/S  IEC61000-4-5(Surge)  IEC62040-1, IEC60950-1  IEC62040-1, IEC60950-1  IEC62040-1, IEC60950-1  IEC62040-1, IEC60950-1  IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)  IP degree  IP 20  USB, RS232, RS485, Dry contact, Cold start  Option  SNMP card, A\$400 card, Parallel kit, LBS, Air filter, Bottom entry kit  Environment  0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)  A62H @ 45% load  A82*700*840(19U, wheels not included)  482*700*840(19U, wheels not included)  482*700*840(19U, wheels not included)  482*700*840(19U, wheels not included)  A40*555*85 (2U)  Weight(kg)  Module  17	mverter	Output THDu	<1%(linear load),<5% (non-linear load according to IEC 62040-3)							
Synchronize window   Settable   ± 0.5Hz-±5Hz   default ± 3Hz		Overload	110%,1 h	our; 125%,10 mins; 150%,1 min; >15	0%,200ms					
Settable   Settable   0.5Hz/S-3Hz/S   default 0.5Hz/S		Frequency accuracy		0.1%						
Phase Accuracy    Phase Accuracy   120°±0.5°		Synchronize window		Settable, ±0.5Hz-±5Hz, default ±3Hz						
Efficiency		Slew rate	S	ettable, 0.5Hz/S-3Hz/S, default 0.5Hz/	/S					
Display   LED + 7 inch touch LCD		Phase Accuracy		120°±0.5°						
Certification		Efficiency	N	Normal Mode ≥93%;Battery Mode ≥93%	6					
Certification- EMS   IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)		Display		LED + 7 inch touch LCD						
P degree   IP20		Certification- Safety		IEC62040-1, IEC60950-1						
Configuration Option SNMP card, AS400 card, Parallel kit, LBS, Air filter, Bottom entry kit Environment Noise(dB)(1 meter)  Obtion Cabinet(W*D*H)mm Module(W*D*H)mm Cabinet  Cabinet Module  Module  Cabinet Module  Module  Configuration USB, RS232, RS485, Dry contact, Cold start  USB, RS232, RS485, Dry contact, Cold start  SNMP card, AS400 card, Parallel kit, LBS, Air filter, Bottom entry kit  0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)  65dB @ 100% load, 62dB @ 45% load  482*700*840(19U, wheels not included) 482*700*840(19U, wheels not included) 482*700*840(19U, wheels not included) 440*555*85 (2U)  Module  17		Certification- EMS	IEC62040-2; IEC61000-4-2(ES	SD); IEC61000-4-3(RS); IEC61000-4-	4 (EFT); IEC61000-4-5 (Surge)					
Option         SNMP card, AS400 card, Parallel kit, LBS, Air filter, Bottom entry kit           Environment         0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)           Noise(dB)(1 meter)         65dB @ 100% load, 62dB @ 45% load           Dimention         cabinet(W*D*H)mm module(W*D*H)mm         482*700*396 (9U, wheels not included)         482*700*662(15U, wheels not included)         482*700*840(19U, wheels not included)           Weight(kg)         Cabinet         92         94           Module         17	System	IP degree		IP20						
Environment 0-40°C (operation); -25°C ~70°C (storage); 0-95% (Humidity, non-condensing)  Noise(dB)(1 meter) 65dB @ 100% load, 62dB @ 45% load  Cabinet(W*D*H)mm doule(W*D*H)mm 482*700*396 (9U , wheels not included) 482*700*662(15U , wheels not included) 482*700*840(19U , wheels not included) 440*555*85 (2U)  Weight(kg) Module 55 92 94		Configuration	U	SB, RS232, RS485, Dry contact, Cold st	art					
Noise(dB)(1 meter)         65dB @ 100% load, 62dB @ 45% load           Dimention module(W*D*H)mm module(W*D*H)mm         482*700*396 (9U, wheels not included)         482*700*662(15U, wheels not included)         482*700*840(19U, wheels not included)           Weight(kg) Module         55         92         94           17         17		Option	SNMP card, AS4	00 card, Parallel kit, LBS, Air filter, Botto	om entry kit					
Dimention         cabinet(W*D*H)mm module(W*D*H)mm         482*700*396 (9U, wheels not included)         482*700*662(15U, wheels not included)         482*700*840(19U, wheels not included)           Weight(kg)         Cabinet Module         55         92         94           Module         17		Environment	0-40°C (operation);	-25°C ~70°C (storage); 0-95% (Humidi	ty, non-condensing)					
Module   M		Noise(dB)(1 meter)								
module(W*D*H)mm         440*555*85 (2U)           Cabinet Weight(kg) Module         55         92         94	Dimention	cabinet(W*D*H)mm	482*700*396 (9U, wheels not included)	482*700*662(15U, wheels not included)	482*700*840(19U, wheels not included)					
Weight(kg) Module 17	Dimention	module(W*D*H)mm		440*555*85 ( 2U )						
Module 17	10/-: 1:0:		55	92	94					
Power Module rated capacity 12KW	vveight(kg)			17						
	Power Mo	dule rated capacity		12KW						

# HyperAir Series In-row Precision Cooling



#### Introduction

The HyperAir series precision cooling is an intelligent temperature control product for data centers, developed byACwatt. It offers easy expansion, high energy efficiency with variable frequency, intelligent output, and safe operation. Suitable for data centers, it ensures a reliable and secure environment for critical infrastructure and precision equipment.





#### **Features**

#### **High Efficiency**

- Efficient DCVF compressor and EC fan provide a stepless dynamic cooling output.
- The cooling efficiency is enhanced by a special return air temperature design.
- R410A refrigerant, international standard, environmentally friendly.

#### **Simple**

- 7" HMI colour touchscreen for easy operation and real-time display of information.
- CAN communication protocol, supports control of at least 64 units.
- · The intelligent system automatically adjusts cooling output.
- · Hierarchical password permissions, facilitating operation and maintenance management.

#### Reliable

- · High-strength structural frame, sturdy and durable.
- Strict quality control of components to ensure quality.
- Rigorous testing and validation to guarantee operational safety.

Indoor Unit(HA Series)	012	025	030	040	050	060
Total Cooling Capacity (kW)	12.6	25.6	30.6	42.9	51.1	63.0
Sensible Cooling Capacity (kW)	12.6	25.6	30.6	42.9	51.1	63.0
Air Flow Rate m3 /h	2850	5080	5250	8580	10600	11600
Fan Type	EC Fan					
Quantity of Fans (pcs)	4	6	6	2	3	3
Compressor Type			DC Variable Frequ	uency Compressor		
Expansion Valve Type			Electronic Ex	pansion Valve		
Refrigerant Type			R4	10A		
Heating Capacity (kW)	3.0	4.5	4.5	6.0	6.5	6.5
Humidifier Capacity (kg/h)	3.0	3.0	3.0	3.0	3.0	3.0
Power Supply			380V/3I	N~50Hz		
Single Cooling Power Supply FLA (A)	19.0	23.2	29.2	30.1	34.8	43.8
Constant Temperature and Humidity Power Supply FLA (A)	22.9	27.9	34.0	37.6	42.0	51.0
Net Weight (kg)	200	225	235	305	335	350
Dimension: W×D×H (mm)	300*1200*2000	300*1200*2000	300*1200*2000	600*1200*2000	600*1200*2000	600*1200*2000
			Conventional	Outdoor Unit		
Outdoor Unit Model (Nominal condition)	FA020APN	FA040APN	FA046APN	FA058APN	FA078APN	FA090APN
Quantity of Fans (pcs)	2	1	1	1	2	2
Net Weight (kg)	49	135	139	150	176	185
Dimension:W×D×H (mm)	830*330*1245	1376*980*738	1576*1274*748	1776*1274*748	2176*1274*738	2376*1274*748
		Centralized	Outdoor Unit(Not	one-to-one corre	espondence)	
Outdoor Unit Model (Nominal condition)	FA046AVN	FA058AVN	FA068AVN	FA078AVN	FA090AVN	FA098AVN
Quantity of Fans (pcs)	1	1	1	1	1	1
Net Weight (kg)	140	150	166	176	186	196
Dimension: W×D×H (mm)	1098*1098*1684	1098*1098*1684	1098*1098*1774	1098*1098*1774	1298*1098*1774	1298*1098*1774

#### Note:

- 1. Nominal condition: indoor: return air temp.  $37^{\circ}\text{C/RH24\%}$ , outdoor:  $35^{\circ}\text{C}$ .
- 2. The FLA parameter is the full load current of the standard model, including the outdoor unit current.
- 3. Only the constant temperature and humidity model has the function of heating and humidification.
- 4. Customized products are available, if you need more parameters, please contact us.

# BaseAir series

# **Small Room Precision Cooling**



#### Introduction

BaseAir series by ACwatt is an efficient, reliable room-level data center temperature control product. Used in small to medium data rooms, battery rooms, UPS rooms, base stations, and industrial equipment rooms for reliable temperature and humidity control.





#### **Features**

#### **High Efficiency**

- High sensible heat ratio and high energy efficiency design, achieving large air volume with low enthalpy difference.
- Backward inclined centrifugal fan, with large air volume and high efficiency.
- Variable-speed outdoor unit, the system operates consistently in high-efficiency mode.
- R410A refrigerant, international standard, environmentally friendly.

#### **Simple**

- 4.3" HMI colour touchscreen for easy operation and real-time display of information.
- Standard RS485 interface, optional SNMP interface, supports management of at least 64 units.
- Threaded quick-connect design, allows for on-site installation without welding.
- · Hierarchical password permissions, facilitating operation and maintenance management.

#### Reliable

- · High-strength structural frame, sturdy and durable.
- Strict quality control of components to ensure quality.
- Rigorous testing and validation to guarantee operational safety.
- Multi-voltage compatibility reduces frequent start-stop operations of the devices.

Indoor Model(BA Series)	005	007	012	017	020	
Total Cooling Capacity (kW)	5.6	7.6	12.6	17.2	20.5	
Sensible Heat Ratio (W/W)	0.9	0.9	0.9	0.9	0.9	
Air Volume (m³/h)	2000	2300	3200	5000	5500	
Fan Type			AC or EC Fans			
Air Supply		Top F	ront Supply/Downflow S	Supply		
EEV		-	High Efficiency EC Fans	S		
Refrigerant			R410A			
Heating Capacity(kW)	3	3	3	6	6	
Humidification Capacity(kg/h)	3	3	3	3	3	
Power Supply Type	220V-	~50Hz	380V/3N~50Hz			
Single Cooling FLA (A)	10.8	15	10.9	14.2	14.8	
Constant Temp. and Humidity FLA (A)	23	25	22	25	26	
Weight (kg)	60	64	99	120	128	
Dimension W×D×H (mm)	520×420×1748	520×420×1748	600×520×1798	700×700×1898	700×700×1898	
FA series Outdoor Unit						
Outdoor Model (Nominal condition)	FA008APN	FA012APN	FA020APN	FA025APN	FA030APN	
Power Supply Type			220V~50Hz			
Outdoor Weight(kg)	28	32	49	88	88	
Dimension W×D×H (mm)	840×285×605	830×310×720	830×330×1245	1050×400×1560	1050×400×1560	

#### Note:

- 1. The above parameters are based on indoor return air working conditions of 24 °C, 50% RH, outdoor ambient temp. 35 °C;
- 2. FLA parameters refer to the full load current of the standard model, including the current of the outdoor unit. The outdoor unit needs to be powered by the indoor unit.
- 3. Single cooling/constant temperature and humidity units are optional. Only the constant temperature and humidity model has heating and humidification functions.
- 4. For the downflow unit, it is recommended to have a minimum floor-to-ceiling height of 300mm. If the recessed fan option is selected, it is recommended to have a minimum floor-to-ceiling height of 400mm.
- 5. Customized products are available. For more parameters, please contact our com

# **MateAir Series**

# Large Room Precision Cooling



#### Introduction

ACwatt's MateAir series is an advanced cooling solution for mediumto large data centers, communication rooms, battery rooms, UPS rooms, and industrial equipment rooms. It provides efficient and reliable temperature control, ensuring a secure and stable environment for critical infrastructure and precision equipment.



#### **Features**

#### **High Efficiency**

- Full frequency conversion system design, high sensible heat ratio, high energy efficiency ratio.
- Efficient DCVF compressor and EC fan provide a stepless dynamic cooling output.
- Utilize a V or A-shaped evaporator for high heat exchange efficiency.
- Variable-speed outdoor unit, the system operates consistently in high-efficiency mode.
- R410A refrigerant, international standard, environmentally friendly.

#### Simple

- 7" HMI colour touchscreen for easy operation and real-time display of information.
- Standard RS485 interface, optional SNMP interface, supports management of at least 64 units.
- Hierarchical password permissions, facilitating operation and maintenance management.
- Modular design, convenient for disassembly and assembly, no need to cut copper pipes.

#### Reliable

- High-strength structural frame, sturdy and durable.
- · Strict quality control of components to ensure quality.
- Rigorous testing and validation to guarantee operational safety.
- Multi-voltage compatibility reduces frequent start-stop operations of the devices.

Indoor Model(MA Series)	025	030	035	040	045	050	060
Total Cooling Capacity (kW)	27.1	30.6	36.3	41.2	45.3	51.2	60.2
Sensible Cooling Capacity (kW)	24.9	27.6	33.4	38.1	41.2	47.1	54.1
Air Volume (m³/h)	8550	9550	11100	12100	12550	13100	14000
Compressor Type		DC	Variable Freque	ency Compressor	(Single System	)	
Compressor Number (pcs)	1	1	1	1	1	1	1
Fan Type			High	n Efficiency EC F	ans		
Fan Number ( pcs)	1	1	1	1	1	1	1
EEV			High Efficien	cy Electronic Exp	ansion Valve		
Refrigerant				R410A			
Heating Capacity (kW)	6	6	6	9	9	9	9
Humidification Capacity ( kg/h )	5	5	5	10	10	10	10
Power Supply Type				380V/3N~50Hz			
FLA (A)	36.5	40.8	41.6	45.7	50.0	54.5	64.6
Indoor Unit Weight (kg)	320	325	350	370	370	470	470
Dimension W×D×H (mm)			900*995*1975			1100*9	95*1975
FA Series Outdoor Unit							
Outdoor Model (Nominal condition)	FA035APN	FA040APN	FA050APN	FA058APN	FA068APN	FA068APN	FA090APN
Power Supply Type				380V/3N~50Hz		ı	ı
Outdoor Weight(kg)	126	135	140	150	166	166	185
Dimension W×D×H (mm)	1376×9	80×738	1576×1274×748	1776×1274×748	1976×12	274×738	2576×1274×748
Indoor Model(MA Series)	060	070	080	090	100	110	120
Total Cooling Capacity (kW)	60.9	72.2	82.1	90.5	102.1	110.2	120.0
Sensible Cooling Capacity (kW)	55.0	66.5	76.0	82.1	94.0	100.1	108.0
Air Volume (m³/h)	19000	22000	24000	25000	26000	27000	28000
	DC Variable Frequency Compressor (Dual System)						
Compressor Type		D	C Variable Frequ	ency Compresso	r(Dual System)	)	ı
Compressor Type  Compressor Number (pcs)	2	D 2	C Variable Frequ	ency Compresso 2	r(Dual System) 2	2	2
	2		2		2		2
Compressor Number (pcs)	2		2	2	2		2
Compressor Number (pcs) Fan Type		2	2 High	2 n Efficiency EC F	2 ans	2	I
Compressor Number (pcs)  Fan Type  Fan Number (pcs)		2	2 High	2 n Efficiency EC F	2 ans	2	I
Compressor Number (pcs)  Fan Type  Fan Number (pcs)  EEV		2	2 High	2 n Efficiency EC For 2 cy Electronic Exp	2 ans	2	I
Compressor Number (pcs)  Fan Type  Fan Number (pcs)  EEV  Refrigerant	2	2	2 High	2 n Efficiency EC For 2 cy Electronic Exp	2 ans 2 ansion Valve	2	2
Compressor Number (pcs)  Fan Type  Fan Number (pcs)  EEV  Refrigerant  Heating Capacity (kW)	9	2 2 9	2 High Efficience	2 n Efficiency EC F 2 ccy Electronic Exp R410A 12	2 ans 2 ansion Valve	2 2	2 12
Compressor Number (pcs)  Fan Type  Fan Number (pcs)  EEV  Refrigerant  Heating Capacity (kW)  Humidification Capacity (kg/h)	9	2 2 9	2 High Efficience	2 n Efficiency EC Fa 2 cy Electronic Exp R410A 12 10	2 ans 2 ansion Valve	2 2	2 12
Compressor Number (pcs)  Fan Type  Fan Number (pcs)  EEV  Refrigerant  Heating Capacity (kW)  Humidification Capacity (kg/h)  Power Supply Type	9 10	2 2 9 10	2 High Efficient 12 10	2 n Efficiency EC F 2 cy Electronic Exp R410A 12 10 380V/3N~50Hz	2 ans 2 ansion Valve 12 10	2 2 12 10	12 10
Compressor Number (pcs)  Fan Type  Fan Number (pcs)  EEV  Refrigerant  Heating Capacity (kW)  Humidification Capacity (kg/h)  Power Supply Type  FLA (A)	9 10 68.6	2 2 9 10 70.3 650	2 High Efficient  12 10 78.6	2 n Efficiency EC Fi 2 cy Electronic Exp R410A 12 10 380V/3N~50Hz 86.8	2 ans 2 ansion Valve  12 10  96.0	2 2 12 10	12 10 116.0 880
Compressor Number (pcs)  Fan Type  Fan Number (pcs)  EEV  Refrigerant  Heating Capacity (kW)  Humidification Capacity (kg/h)  Power Supply Type  FLA (A)  Indoor Unit Weight (kg)	9 10 68.6	2 2 9 10 70.3 650	2 High Efficient  12 10  78.6 690	2 n Efficiency EC Fi 2 cy Electronic Exp R410A 12 10 380V/3N~50Hz 86.8	2 ans 2 ansion Valve  12 10  96.0	2 2 12 10 106.0 880	12 10 116.0 880
Compressor Number (pcs)  Fan Type  Fan Number (pcs)  EEV  Refrigerant  Heating Capacity (kW)  Humidification Capacity (kg/h)  Power Supply Type  FLA (A)  Indoor Unit Weight (kg)  Dimension W×D×H (mm)	9 10 68.6	2 2 9 10 70.3 650	2 High Efficient  12 10  78.6 690	2 n Efficiency EC Fi 2 cy Electronic Exp R410A 12 10 380V/3N~50Hz 86.8	2 ans 2 ansion Valve  12 10  96.0	2 2 12 10 106.0 880	12 10 116.0 880
Compressor Number (pcs)  Fan Type  Fan Number (pcs)  EEV  Refrigerant  Heating Capacity (kW)  Humidification Capacity (kg/h)  Power Supply Type  FLA (A)  Indoor Unit Weight (kg)  Dimension W×D×H (mm)  FA series Outdoor Unit	9 10 68.6 600	2 9 10 70.3 650 1800*99	2 High Efficient  12 10  78.6 690 95*1975	2 n Efficiency EC F. 2 cy Electronic Exp R410A 12 10 380V/3N~50Hz 86.8 690	2 ans 2 ansion Valve  12 10  96.0 880	2 2 12 10 106.0 880 2200*995*1975	12 10 116.0 880
Compressor Number (pcs)  Fan Type  Fan Number (pcs)  EEV  Refrigerant  Heating Capacity (kW)  Humidification Capacity (kg/h)  Power Supply Type  FLA (A)  Indoor Unit Weight (kg)  Dimension W×D×H (mm)  FA series Outdoor Unit  Outdoor Model (Nominal condition)	9 10 68.6 600	2 9 10 70.3 650 1800*9	2 High Efficient  12 10  78.6 690 95*1975	2 n Efficiency EC F 2 cy Electronic Exp R410A 12 10 380V/3N~50Hz 86.8 690	2 ans 2 ansion Valve  12 10  96.0 880	2 2 12 10 106.0 880 2200*995*1975	12 10 116.0 880

#### Note:

- 1. The above parameters are based on indoor return air working conditions of 24 °C, 50% RH, outdoor ambient temp. 35 °C;
- 2. The upper air supply unit has two air supply methods: Upflow air supply and top front air supply;

  3. The default fan of the Downflow supply fan is sunken type, and the recommended net height of the floor is ≥ 400mm;

  4. Customized products can be provided, if you need more parameters, please contact our company.

# Matinal AC5000 series

### Modular Data Center



#### Introduction

ACwatt AC5000 is a complete self-contained modular data-center designed by ACwatt experts to enable rapid and risk-free IT deployments. With capacities up to 15 racks, integrating cooling, UPS, power distribution, and emergency ventilation, the AC5000 enables standardization of complete micro datacenter configurations across multiple locations.



#### **Application**

Small data centers and campus data centers, Banking, Financial and Insurance, Education, Healthcare, Manufacturing, Retail and Wholesale, Transportation.

#### **Features**

- High reliability, engineering productization, prefabricated installation, redundant design of key systems and components to enhance overall system reliability.
- Intelligent management, supporting various alert methods such as SMS, phone calls, emails, and audio-visual signals, with multiple human-machine interaction methods including remote apps, local LCD, and web interface.
- High energy efficiency, adopting high-efficiency intelligent modular UPS, integrated distribution design, various modes of rack/In-row precision air conditioning, closed channel deployment, empowering data centers to achieve optimal PUE.
- Factory pre-installation, standardized components, modular architecture, plug-and-play, facilitating rapid deployment of data services.

	Model	AC5000			
	Cabinets number	1-15			
System	Power grid system	Single Phase: 220Vac,50Hz, 1Ph+N+PE; Three Phase: 380Vac, 50Hz, 3Ph+N+PE			
System	Ambient temperature	0-45°C			
	IPxx	IP5X			
	Dimension (W * D * H) mm	600*L*2000 (W/O wheels)			
	Display	10 inches touch screen LCD			
Cabinet	Lighting	LED lighting+RGB			
Cabinet	Cable entry	Up and Down			
	Access control	Fingerprint + IC card + face ID			
	Emergency cooling	Pop-up door			
PDM	Input current	63-200A			
PDIVI	SPD	Class C			
	Capacity	3-10kVA 20kVA-120kVA			
UPS	Input	1P: 220Vac,50Hz,1Ph+N+PE; 3P: 380Vac, 50 Hz, 3Ph+N+PE			
UFS	Work operation	1P/1P; 3P/1P; 3P/3P			
	Battery	Packs or cabinets			
PDU		13*IEC C3+3*IEC C9 or customized			
	Input	Connect to utility			
	Capacity	3.5-25kW			
Cooling	Installation	Rack or In-row			
	Ventilation	Back to front			
	Compressor	VF			
		Integrated intelligent monitoring screen			
		Power monitoring(UPS, load)			
		Smoke sensor			
		Temp.and humidity sensor (option)			
	Monitoring	Water leakage sensor			
		Network Camera ( option )			
		Infrared sensor ( option )			
		SMS alarm ( option)			
		Acoustic-optic alarm (option)			

# Daystar AC8000 series

### Modular Data Center



#### (a) Introduction

AC8000 series adopts a modular prefabricated design. Integrate power supply, UPS, precision cooling, cabinet, closed channel, and dynamic environment

monitoring systems into one. Equipped with abundant sampling sensors, real-time unified monitoring and management, realizing automatic control and intelligent operation and maintenance. Improve the reliability, availability, and maintainability of the data center.



#### **Application**

Large data centers and campus data centers, Banking, Financial and Insurance, Education, Healthcare, Manufacturing, Retail and Wholesale, Transportation.



#### **Features**

- High Reliability
  - Prefabricated installation, redundant design of system components, improving overall system reliability.
- Intelligent Management
  - Supporting SMS, phone, email, sound and light alarms, and friendly HMI: remote APP, local LCD, WEB.
- High Efficiency
  - Equipped with high-efficiency modular UPS, integrated power distribution design, In-row AC refrigeration, closed channels, and reduced energy consumption.
- Simple Installation
  - Standardized engineering design, quick installation modular design, hot-swappable, easy to install and maintain.



Model		AC8000
System	Dimensions(W*D*H)mm	3600*L*2600
	IT Rate Power/Cabinet	3~12kW
	Door	Automatic sliding doors/Manual sliding doors
	Lighting	LED lighting+RGB
	Door Security	Fingerprint + IC card + face ID
	Ambient Temp.	0-45°C
	Ambient Humidity	10-95%
	Protection Level	IP20
	Installation	Installing on concrete floor or raised floor
Cabinet	Dimensions(W*D*H)mm	600/800 * 1200/1100 * 2000/2200
	Space Available	42U
	Cables Entry	Top and bottom
PDM	Input Way	Single input MCCB/Dual input ATS
	Rate Input	380/400/415Vac,50/60Hz
	Total Input Current	63~400A
	SPD	Class B/C (optional)
	Distribution type	Integrated UPS power distribution cabinet
UPS	Rate Capacity	Built-in maximum 180kVA, external 200kVA or more
	Input Frequency	50/60 , +-5Hz
	Output PF	1
	Battery	Built-in rack battery cabinet or external battery cabinet
PDU	Standard Type	IEC socket*2pcs, 16 ports (12*10A+4*16A)
Cooling	Cooling Capacity	12.5~60KW (In-row)
	Refrigeration method	forced air cooling
	Refrigerant	R410A
Monitoring	HMI Interface	23.8 Inch touch all in-one PC
	System Function	WEB remote access/centralized monitoring of power, environment, video, access control system
	Monitoring Parts	Smoke/Temp.& humidity/Water leakage/Infrared detector/Webcam/Door security/Firefighting
	Alarms	Email/SMS alarm (optional)/Sound and light alarm(optional)/ Phone voice(optional)/Phone APP(optional)

# 应用范围

# SCOPE OF APPLICATION

### **Business Solution**



**Edge Computing** 



Micro Data Centers



**Network Closets** 



Server Rooms



Small&Medium Data Centers



**Industrial Power** 

### **Home Solutions**



Home Office



**Connected Home Gaming** 

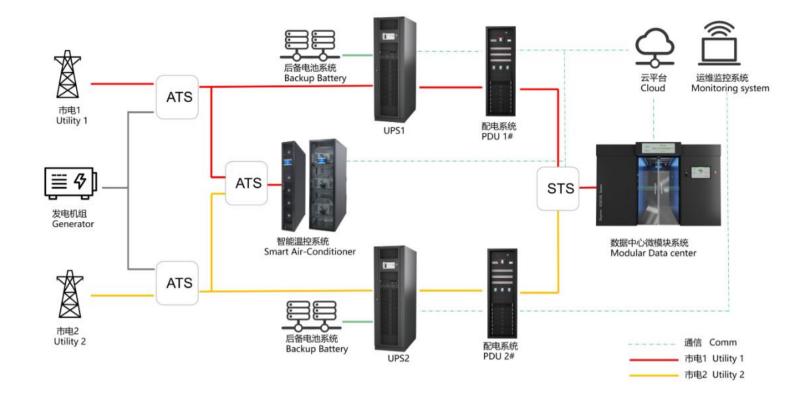
#### **Government and Education Solutions**



Government



Education





# BEIJING GUOGUANG XINGDA TECHNOLOGY CO.,LTD

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