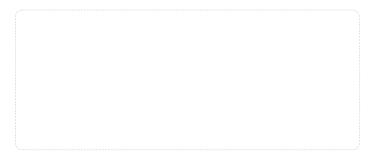
INVT Power System

Power Solution Specialist

Power Solution Specialist









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Information may be subject to change without notice during product improving.





Stock Code: 002334







FOREWORD

With the rapid development of economy, business continuity is becoming more important than ever before. Customers from telecom operators, IDC, banks and cloud computing data centers are seeking for more reliable power solution with better serviceability and energy-saving performance. With many years of experience in power business, INVT Power is providing power solutions for customers from more than 60 countries with state-of-the-art design and quality for critical missions. Our products have a wide range from office to data center and industrial applications which cover power capacity from 500VA to 900KVA.



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Provide the global customers with high quality products and solutions together with full range of services.

Company Profile

Assiduously seeking, consistently sincere, accomplishing the most brilliant pursuing

As the leading total power solution provider in China, INVT is committed to offer high quality products and service to global customers. The powerful R&D ability insures that our products and solutions are the best choice for critical power applications.

INVT established the most powerful R&D platform for power supply development in China, including Components Lab, Performance Lab, Mechanical Environment Lab, Climate Environment Lab, EMC lab, and Safety Lab. Due to all of these technologies and platform, INVT products are considered to be the most advanced and reliable in China.

Warmly welcome to be our distributor and partner. Meanwhile, we can provide OEM and ODM production and service for the clients all around the world.

















invt



Our product lines cover modular UPS, high frequency UPS, inverter, telecom rectifier and lead-acid maintenance free battery. With our own complete intellect property rights, the power range is from 500VA to 900KVA.









INVT Power has one research center and four manufacturing bases occupying 30000 m², which equips with the most advanced devices and platforms including TUV certificated laboratory and platforms for EMC, reliability and safety. This guarantees our products of high quality and reliability with global top-ranking level in research, design and manufacturing.









Honors

The fruits abound in sweat and wisdom have faded away, the dream is always ahead of us.

- National Hi-Tech enterprise
- The key software enterprise in Shenzhen
- Top ten influential brand in electric industry
- Certificate of energy-conserving products
- Top 500 industry enterprise
- Top ten satisfied brand in professional customer in China
- Innovation industrialization demonstration base



Quality Management System Certificate



CE Certificate



Software Copyright Register



Environmental Management System Certificate



TLC Certificatee



Network Access license



Occupational Health and Safety
Management Certificate



Energy Conservation Product



National Patent Certificate





RM300/30X Series Modular Online UPS

25-900KVA (380V/400V/415V) 15-600KVA (200V/208V/220V)

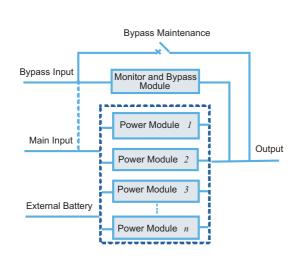
Description

The RM300/30X Modular UPS provides the most compact footprint of less than 2m2 with maximum capacity of 900KVA.

With best reliability and high performance, it has been leading the domestic market for years.

RM300/30X is considered to be the best power protection solution for large data centers, as well as for sensitive electronics.













Features

- Modular design with N+X redundancy ,online hot-swappable
- High power density with footprints of less than 2m² up to 900KVA in parallel, 30KVA power module with only 3U height
- Green and energy saving: AC/AC efficiency>95%,input power factor>0.99 while input THDi<3%
- Full DSP control of high stability, reliability and safety
- Integrated IGBT module with improved performance and reduced size
- Excellent input performances for complete compatibility with input PF of 99% and wide range of voltage
- Self-Aging mode for full load test with less than 10% of the total power capacity needed
- Smart Sleeping mode for energy saving and prolong the life time of the system
- Optimized battery management, intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery
- Battery cold start, UPS can be powered on from the battery without utility
- Automatically record the critical wave information when fault happens, easy for trouble shooting
- Monitor runtime of critical components, such as fans and capacitors, settable alarm for service period
- Independent LCD display for each power module with self-starting function
- Programmable dry contacts, the function of each port can be defined by users
- Friendly human machine interface with colorful touch screen of 10.4 inches

Specification

Model		RM300/30X RM250/25X	RM180/30X RM150/25X	RML200/20X RML150/15X	RML120/20X RML90/15X		
Capacity		25-9	900KVA	15-600	KVA		
Power Module Ty	pe	PM30	X/PM25X	PML20X/P	ML15X		
Input							
Phase			3 Phases + No	eutral + Ground			
Voltage		380V/400V/41	5V(line to line)	200V/208V/22	OV(line to line)		
Frequency			50/	60Hz			
Power Factor		>0.99					
THDi		THDi<3% @ 100% linear load					
Voltage Range		228V~304Vac (Line-Line	ne-Line),full load e),load decreases linearly min phase voltage	166~261Vac (Lin 125V~166Vac (Line-Line according to the m	,load decreases linearl		
Frequency Range	Э		40Hz	~70Hz			
Output							
Voltage		380V/4	100V/415V	200V/208V/220V			
Voltage Regulation	n		1.	5%			
THDu		THD<1%(linear load),THD<6%(None linear load)					
Power Factor		0.9					
Crest Factor		3:1					
Overload Capabil	lity	110% for 1 hou	ur; 125% for 10 minutes	;150% for 1 minute; >1	50% for 200ms		
Battery							
Voltage		±24	10VDC	±12	20VDC		
Charge Power			20%*Sys	tem Power			
Charge Voltage	Precision		±	1%			
System							
System Efficiency	/		% ;ECO mode:99% ; mode:95%	Normal mode:93% ;Battery mo	· ·		
Display		1	0.4" LCD+LED, Color to	ouch Screen +Keyboard	ď		
IP Class			IP	20			
Interface		Standard :RS232,RS4	85,Dry contacts, USB;	Optional: SNMP ,Expar	nsion dry contact car		
Operation/Storag	e Temperature		0~40°C/-	40∼70°C			
Relative Humidity	1		0~95%(non-	condensing)			
Noise		65dB @ 100% load, 62dB @ 45% load(1 meter away)					
Physical							
Not Weight (Ke)	Cabinet	10-Slot Cabinet:220Kg	6-Slot Cabinet :165Kg	10-Slot Cabinet:220Kg	6-Slot Cabinet :165K		
Net Weight (Kg)	Power Module	PM30X:34Kg	; PM25X: 32Kg	PML20X:34Kg	; PML15X: 32Kg		
Dimension	Cabinet	10-Slot Cabinet: 600*1100*2000	6-Slot Cabinet: 600*1100*1600	10-Slot Cabinet: 600*1100*2000	6-Slot Cabinet: 600*1100*1600		
(W*D*H)(mm)	Power Module	PM30X/ PM25	X:460*790*134	PML20X/PML15X:460*790*134			

RM600/30X Series Modular Online UPS

25-600KVA (380V/400V/415V) 15-400KVA (200V/208V/220V)

Description

The RM600/30X Modular UPS provides power capacity of 600KVA in one single system. With the most advanced full DSP control technology, health management system and smart monitoring system, it has been proven to be the best choice for large data centers, as well as for sensitive electronics.









Features

- Modular design with N+X redundancy ,online hot-swappable
- High power density of 600KVA in one single cabinet, 30KVA power module with only 3U height
- Green and energy saving: AC/AC efficiency>95%,input power factor>0.99 while input THDi<3%
- Full DSP control of high stability, reliability and safety
- Integrated IGBT module with improved performance and reduced size
- Self-Aging mode for full load test with less than 10% of the total power capacity needed
- Smart Sleeping mode for energy saving and prolong the life time of the system
- Optimized battery management, intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery
- Battery cold start, UPS can be powered on from the battery without utility
- Automatically record the information when faults happen, easy for trouble shooting
- Monitor runtime of critical components, such as fans and capacitors, settable alarm for service period
- Independent LCD display for each power module with self-starting function
- Programmable dry contacts, the function of each port can be defined by users
- Friendly human machine interface with colorful touch screen of 10.4 inches

Specification

Model		RM600/30X RM500/25X	RML400/20X PML300/15X						
Capacity		25-600KVA	15-400KVA						
Power Module Ty	/pe	PM30X/PM25X	PML20X/PML15X						
Input									
Phase		3 Phases + Ne	3 Phases + Neutral + Ground						
Voltage		380V/400V/415V(line to line) 200V/208V/220V(line to I							
Frequency		50/60Hz							
Power Factor		>0.99							
THDi		THDi<3% @ 10	00% linear load						
Voltage Range		304~478Vac (Line-Line),full load 228V~304Vac (Line-Line),load decreases linearly according to the min phase voltage	166~261Vac (Line-Line),full load 125V~166Vac (Line-Line),load decreases linearly according to the min phase voltage						
Frequency Range	е	40Hz^	~70Hz						
Output									
Voltage		380V/400V/415V	200V/208V/220V						
Voltage Regulation	on	1.5	5%						
THDu		THD<1%(linear load),Th	HD<6%(None linear load)						
Power Factor		0.9	0.8						
Crest Factor		3:	:1						
Overload Capabi	lity	110% for 1 hour; 125% for 10 minutes	;150% for1 minute; >150% for 200ms						
Battery									
Voltage		±240VDC ±120VDC							
Charge Power		20%*System Power							
Charge Voltage F	Precision	±1%							
System									
System Efficiency	у	Normal mode:95% ;ECO mode:99% ; Battery mode:95%	Normal mode:93% ;ECO mode:98% ; Battery mode:93%						
Display		10.4" LCD+LED, Color to	ouch Screen +Keyboard						
IP Class		IP	20						
Interface		Standard :RS232,RS485,Dry contacts, USB;	Optional: SNMP ,Expansion dry contact card						
Operation/Storag	je Temperature	0~40°C/-	-40~70°C						
Relative Humidity	y	0∼95%(non-	-condensing)						
Noise		72dB @ 100% load, 68dB (@ 45% load(1 meter away)						
Physical									
Net Weight (Kg)	Cabinet	660Kg	660Kg						
rvet vveight (rvg)	Power Module	PM30X: 34Kg; PM25X:32Kg	PML20X:34Kg; PML15X: 32Kg						
Dimension	Cabinet	2000*1050*2000	2000*1050*2000						
(W*D*H)(mm)	Power Module	PM30X/ PM25X:460*790*134	PML20X/PML15X:460*790*134						

RM200/20 Series Modular Online UPS

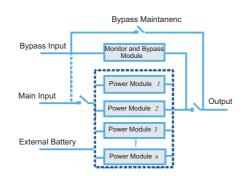
10-400KVA (380V/400V/415V) 6-240KVA (200V/208V/220V)

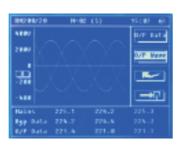
Description

RM200 series is modular online UPS for sensitive equipments. The single cabinet power rating covers from 10KVA to 200KVA which delivers the best of combination of reliability, hot-swappable and flexibility.

With the latest IGBT three-level technology and DSP control, RM200 achieves a high input power factor, low THDi and high system efficiency, which makes it a great choice for data centers, computer system and critical equipments.









Features

- Modular design with N+X redundancy and online hot swapping ,easy to expand the capacity
- Full DSP control of high stability, reliability and safety
- Integrated IGBT module with improved performance and reduced size
- Excellent input performances for complete compatibility with input PF of 99% and wide range of voltage
- Self-Aging mode for full load test with less than 10% of the total power capacity needed
- Smart charging management system, intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery
- Independent charger for batteries, intelligent battery management system
- Battery cold start, UPS can be powered on from the battery without utility.
- Totally front access, top and bottom cable connection
- Friendly human machine interface with touch screen

Specification

Model		RM200/20 RM150/15 RM100/10	RM120/20 RM090/15 RM060/10	RM060/20 RM045/15 RM030/10	RML120/12 RML100/10 RML060/06	RML072/12 RML060/10 RML036/06	RML036/12 RML030/10 RML018/06	
Capacity			10-400KVA		6-240KVA			
Power Module 7	Гуре	F	PM20/PM15/PM	10	PM	L12/PML10/PM	L06	
Input								
Phase				3 Phases + Ne	eutral + Ground			
Voltage		380V/	400V/415V(line	to line)	ne) 200V/208V/220V(line to line)			
Frequency		50/60Hz						
Power Factor				>0	.99			
THDi				THDi<3% @10	00% linear load			
Voltage Range		-20%~25% -20%~25%						
Frequency Rang	je	40Hz~70Hz						
Output								
Voltage			380V/400V/415	V		200V/208V/220	V	
Voltage Regulati	on	±1%(Balance load); ±1.5%(Unbalance load)						
THDu		THD<1.5%(linear load),THD<6%(None linear load)						
Power Factor		0.8						
Crest Factor		3:1						
Overload Capab	ility	110% f	or 1 hour; 125%	for 10 minutes	;150% for1 mir	nute; >150% for	200ms	
Battery								
Voltage			±240VDC			±120VDC		
Charge Power				20%*Syst	em Power			
Charge Voltage I	Precision	±1%						
System								
System Efficience	ey		de:95%; ECO n attery mode:95%			de:92%; ECO n attery mode:90%		
Display			LC	D+LED, Touch	Screen +Keybo	ard		
IP Class				IP	20			
Interface(Commi	unication Port)		RS232,I	RS485,Dry con	tacts, SNMP ca	rd, EPO		
Operation/Storag	ge Temperature			0~40°C/	-25 ~ 70℃			
Relative humidity	у			0~95%(non	-condensing)			
Noise				55dB(1 m	eter away)			
Physical								
Not Mainht/I/-	Cabinet	10	-Slot cabinet:18	2Kg; 6- Slot ca	binet:151Kg; 3-	Slot cabinet:120	Kg	
Net Weight(Kg)	Power Module	PM20:22K	g; PM15:21Kg;	PM10:20Kg	PML12:22Kg	; PML10:21Kg;	PML06:20Kg	
Dimension	Cabinet	10-Slot cabin	et: 600*900*200	0; 6-Slot cabine	t: 600*900*1600	; 3-Slot cabinet:6	600*900*1100	
(W*D*H)(mm)	Power Module	PM20/F	PM15/PM10:440	*590*134	PML12/PM	1L10/PML06:440	0*590*134	

RM060/20B Series Modular Online UPS

10-60KVA (380V/400V/415V) 6-36KVA (200V/208V/220V)

Description

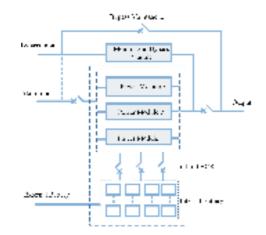
RM060/20B series is modular online UPS with hot-swappable battery. The single cabinet power rating covers from 10KVA to 60KVA which delivers the best combination of reliability, hot-swappable and flexibility.

With intelligent battery protection and management technology, RM060/20B realises a compact total power solution which is easy for installation, maintenance and power expansion. This model is exactly the best choice for medium power applications.













Features

- Modular design with swappable battery package
- Monitor system for battery
- Integrated IGBT module with improved performance and reduced size
- Easy for installation and maintenance
- Easy for power expansion and backup time expansion
- Intelligent protection technology for safe and reliable hot swappable battery package of the system
- Smart charging management system, Intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery
- Battery cold start, UPS can be powered on from the battery without utility
- Friendly human machine interface with touch screen

Specification

Model		RM060/20B	RM045/15B	RM030/10B	RML036/12B	RML030/10B	RML018/06B		
Capacity			10-60kVA			6-36KVA			
Power Module Ty	ype	PI	M20/PM15/PM	110	PM	L12/PML10/PM	1L06		
Input									
Phase		3 Phases + Neutral + Ground							
Voltage		380V/4	00V/415V(line	to line)	200	V/208V/220V(li	ne to line)		
Frequency				50/6	0Hz				
Power Factor				>0	.99				
THDi			-	THDi<3% @10	00% linear load				
Voltage Range			-20% ~ 25%			-20% ~ 25%			
Frequency Rang	е			40Hz -	~ 70Hz				
Output									
Voltage Regulation	on		±1%(Ba	alance load); ±	1.5%(Unbaland	e load)			
THDu			THD<1.5%((linear load),T	HD<5%(None I	inear load)			
Power Factor				0	.8				
Crest Factor				3	:1				
Overload Capaci	ity	110% for	1 hour; 125%	for 10 minutes	;150% for1 mir	nute; >150% for	r 200ms		
Battery									
Voltage			±240VDC			±120VDC			
Charge Power				20%*Syst	em Power				
Charge Voltage I	Precision	±1%							
System									
System Efficienc	у		de:95%;ECO attery mode:95			ode:92%;ECO Battery mode:90			
Display			LCD	+LED, Touch	Screen +Keybo	ard			
IP Class				IP.	20				
Interface(Commu	unication Port)	RS23	32,RS485,Dry	contacts, SNN	IP card, EPO,G	Senerator interfa	ace		
Installation/Conn	ection		To	op or bottom c	able connection	1			
Operation/Storag	ge Temperature			0~40°C/-	25~70°C				
Relative Humidit	у			0~95%(non-	condensing)				
Noise				55dB(1 m	eter away)				
Physical									
	Cabinet	200Kg							
Net Weight (Kg)	Power Module	PM20:22Kg	; PM15:21Kg;	PM10:20Kg	PML12:22Kg; PML10:21Kg; PML06:20K				
	Battery Package	age 10Kg(without battery)							
	Cabinet		600*1020*2000						
Dimension (W*D*H)(mm)	Power Module	PM20/PM	115/PM10:440	*590*134	PML12/PN	//L10/PML06:44	10*590*134		
	Battery Package			120*	824*177				

HT33 Series Tower Online UPS

10-120kVA (380V/400V/415V) 6-72KVA (200V/208V/220V)

Description

HT33 series three phase UPS offers advanced technology that increase performance and reliability: three high speed DSPs with completed digital control fully ensure high quality of power supply, high input power factor and low input current distortion. It also offers humanization design: full front access of serviceability, user friendly interface.



Application

- ISP(Internet service provider), IDC(Internet Data center)
- Computer Room, Service Center
- Precision instruments
- Intelligent equipments

Features

- Wide input voltage and frequency range, compatible with different utility
- High input PF>0.99
- Input Current THDi < 3%
- Full DSP Control
- Online double conversion technology, output excellent sinusoidal wave
- Intelligent battery management, greatly extend the battery life
- Full protection, including back feed protection, battery leakage protection and so on
- Parallel up to 6 power units
- Modular design of subsystem, convenient for field maintenance
- Friendly Operation Interface, touch LCD Screen

Specification	(380/400	/415V)								
Model	HT33010S HT33010	HT33015S HT33015	HT33020S HT33020	HT33030S HT33030	HT33040	HT33060	HT33080	HT33100	HT33120	
Capacity	110kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA	
Input										
Voltage			380\	V/400V/415V	(line to line)), 50/60Hz				
Phase				3Ph	ı+N+PE					
Power factor				>	0.99					
THDi				TH	Di<3%					
Voltage range		-20%~25%								
Frequency range				40)-70Hz					
Output										
Voltage Regulation				:	±1%					
THDu		THD<1%(linear load),THD<5%(none-linear load)								
Power Factor		0.8								
Frequency Range			5	60/60Hz±3Hz	(Default), S	ettable				
Frequency precision				±0.02%(free running	g)				
Slew Rate				0.5Hz/s from	5Hz/s(Set	table)				
Overload Capability		110% fo	r 60 Min; 125	5% for 10 Min	;150%,for 1	1 Min;>150°	%, for 200m	Sec		
Battery										
Voltage				±2	40VDC					
Charger Power				20%*Sy	stem Powe	r				
Voltage Precision					1%					
System										
				Normal	mode: 95%	, 0				
System Efficiency				ECO r	node: 98%					
				Battery	mode: 95%	, D				
Display		LCD+LEI	D, Keyboard		LC	D+LED, To	ouch Screer	ı +Keyboar	d	
IP Class				IF	P20					
Interface		RS232,I	RS485,Dry co	ontacts, SNM	IP card, EP	O, Generat	tor interface	•		
Operation Temperature				0~	40℃					
Relative Humidity				0~90%(non	-condensir	ng)				
Noise				<55dB (1)	meter away	·)				
Physical										
Net Weight (Kg)	97/44	97.5/46	97.5/46	99.5/58	164	186	208	256	278	

540*690*1100

280*730*668

540*762

*1000

320*781*788

600*855*1350

600*855*1600

19

Dimension

(W*D*H)(mm)

Specification (200/208/220V)

Model	HTL33006S HTL33006	HTL33010S HTL33010	HTL33012S HTL33012	HTL33018S HTL33018	HTL33024	HTL33036	HTL33048	HTL33060	HTL33072		
Capacity	6kVA	10kVA	12kVA	18kVA	24kVA	36kVA	48kVA	60kVA	72kVA		
Input											
Voltage		200V/208V/220V(line to line), 50/60Hz									
Phase		3Ph+N+PE									
Power Factor		>0.99									
THDi				TH	Di<3%						
Voltage Range				-20	%~25%						
Frequency Range				40)-70Hz						
Output											
Voltage Regulation			±2% (b	alanced load	d),3% (unba	lanced loa	d)				
THDu			THD<2%(linear load),	THD<6%(no	one-linear l	oad)				
Power Factor					8.0						
Frequency Tracking Range			50)/60Hz±3Hz(Default),adj	iustable					
Frequency Precision				±0.05%(running free	e)					
Slew Rate				0.5Hz/s from	5Hz/s(Sett	table)					
Overload Capability		110% for	r 60 Min; 125	% for 10 Min	;150%,for 1	1 Min;>150	%, for 200m	nSec			
Battery											
Voltage				±1	20VDC						
Charger Power				20%*Sy	stem Powe	r					
Voltage Precision					1%						
System											
				Normal	mode: 92%	, D					
System Efficiency				ECO n	node: 98%						
				Battery	mode: 90%						
Display		LCD+LED	, Keyboard		L	CD+LED,	Touch Scre	en +Keyboa	ard		
IP Class				IF	P20						
Interface			RS232,RS	6485,Dry cor	ntacts, SNM	IP card, EP	0				
Operation Temperature				0~	40°C						
Relative Humidity			(0~95%(non	-condensin	g)					
Noise				<55dB (1 n	neter away)						
Physical											
Net Weight (Kg)	97/44	97.5/46	97.5/46	99.5/58	164	186	208	256	278		
Dimension		540*69	90*1100		540*762	600*05	E*12E0	600*05	E*1600		
(W*D*H)(mm)		280*730*668	3	320*781*788	*1000	000 83	55*1350	600*85	5 1000		

HT22 Series Tower Online UPS

6-10KVA (220V)

Description

HT22 series is online double-conversion UPS with full DSP control technology. With powerful load capability, self-adjusting output frequency, smart battery management system and network management, HT22 is a perfect choice for computers, IT equipments and other sensitive devices.

Features

- Wide range of input voltage and frequency
- Output PF of 0.8
- Full protection of overvoltage, circuit short and over temperature
- Network/fax/modem surge protection
- LCD/LED display, monitoring all the operation status
- Abundant interface: RS232,USB, SNMP, Intelligent Card



Specification (220/230/240V)

Specification (220/230/	(240V)						
Model	HT2206S	HT2206L	HT2210L				
Capacity	6kVA 10kVA						
Phase		Two phase in,Two phase out					
	50%	~125%(220VAC/230VAC/240V	AC)				
Input Voltage Range		d@80%~125%; 90% load@70 d@60%~70%; 65% load@509					
Input PF		≥0.97					
Input Frequency		40Hz~70Hz					
Output Voltage		110/115/120/127VAC					
Voltage Regulation	± 3%						
Output Frequency	settable,±3Hz default; Battery mode:(50±0.05) Hz						
Slew Rate	0.5~5Hz/s,2 Hz/s default						
Output PF	0.8						
Overload Capability	130%	Transfer to bypass after 10 mi Transfer to bypass after 1 mi to bypass after 30s, shutdown	n				
THDu		≤2.5% THD, linear load					
Battery Voltage	192VDC	192	2VDC				
Charging Voltage		(220±1%)VDC					
Charging Current	1A	5A (8A opt	tional)				
Charging Time	7h recharge to 90%	Depend on the capacity	of external batteries				
Efficiency	Inverter mode:88	.0% ECO Model:93.0%;Battery	/ mode:87.0%				
Interface	F	RS232,USB,SNMP(Optional)					
Dimension(W*D*H)(mm)	250*526*945 250*526*885 250*526*885						
	104 65 78						

 ~ 21

HT11/31 Series Tower Online UPS

6-20kVA (220V/230V/240V) 4-12KVA (110V/120V/127V)

Description

HT11/31 series are online double-conversion UPS with full DSP control technology. With high input and output power factor,self-adjusting output frequency, smart battery management system and network management, HT11/31 are perfect choice for computers, telecommunication equipments and other sensitive devices.

Specification (220/230/240V)

Model	HT1106S HT1106L	HT1110S HT1110L	HT1115L	HT1120L	HT3110S HT3110L	HT3115L	HT3120L		
Capacity	6kVA	10kVA	15kVA	20kVA	10kVA	15kVA	20kVA		
Phase	Single phase in,Single phase out Three phase in,Single phase out								
	50%~1	125%(220VAC	2/230VAC/240	OVAC)	50%~125%	(380VAC/400\	/AC/415VAC)		
Input voltage range			_		% load@70% % load@50%				
Input PF	≥0.	99	≥0	.98		≥0.95			
Input Frequency Range				40Hz-70Hz					
Output PF				0.9					
Output Voltage			22	20V/230V/24	V				
Voltage Regulation				±1%					
THDu		≤1%TF	HD, full linea	r load;≤5%T	HD,none-line	ear load			
Battery Voltage				192VDC					
System Efficiency	Normal Mo ECO Moo Battery m	del:98%;	ECO M	odel:93.5%; odel:98%; mode:92%	١	NormalModel:93 ECO Model:98 Battery mode:9	3%;		
Noise(1 meter away)	<48dB@< <58dB@>			<70%load; >70%load		<53dB@<70%L <66dB@>70%l			
Overload Capability (Inverter mode)	110%:for	10 min ; 1309	%:for 1min ;	150%:for 30	sec (shut dov	vn the bypass	after 1 min)		
Overload Capability (Battery mode)	110%: 5	Shutdown afte	r 10mins; 125	5%:Shutdowr	after 10s;>1	25%: Shutdow	n after 1s		
Crest Ratio				3:1					
Display				LED+LCD					
Interface			F	RS232,SNMP					
\\/*\D*\\/\mm\	250*526*645	250*526*645	050*544*705	250*544*705	250*526*765	050*544*705	050*544*705		
W*D*H(mm)	250*526*480	250*526*480	250 544"/05	250*544*705	250*526*645	250*544*705	250*544*705		
Net Weight(Kg)	58	64.5	33	33	67	33	33		
rtot worgrit(rtg)	17	19	33	33	25	33	33		

Features

- Wide range of input voltage and high input power factor
- Output PF of 0.9
- Full protection of overvoltage, circuit short and over temperature
- Network/fax/modem surge protection
- LCD display, monitoring all the operation status
- Auto fan speed adjustment
- Abundant interface: RS232,USB, SNMP, Intelligent Card

Specification (110/120/127V)

	, , _ , , , , , , , , , , , , , , , , ,								
Model	HTL1104S HTL1104L	HTL1106S HTL1106L	HTL1110L	HTL1112L	HTL3106S HTL3106L	HTL3110L	HTL3112L		
Capacity	4kVA	6kVA	10kVA	12kVA	6kVA	10kVA	12kVA		
Phase	Single phase in,Single phase out Three phase in,Single phase out								
		50%~125%(110VAC) 50%~12							
Input Voltage Range			100% load@8 80% load@6		_				
Input PF			≥0.98			≥0.98			
Input Frequency Range		40Hz-70Hz							
Output PF		0.8							
Output Voltage	110/115/120/127VAC								
Voltage Regulation		±1.5%							
THDu		≤2%	THD,full linea	r load;≤5%T	HD,none-lin	ear load			
Battery Voltage				192VDC					
System Efficiency	Normal :86%; ECO :98%; Battery:88%	Normal :87%; ECO :98%; Battery:89%	Normal:88%; ECO:98%; Battery:89%	Normal:89%; ECO:98%; Battery:89%		Normal:89% ECO :98%; Battery :90%	•		
Noise(1 meter away)	_	70%load; >70%load	_	<70%load; >70%load		<53dB@<70%L <66dB@>70%l			
Overload Capability (Inverter mode)	11	10%:10 min ;	130%:1min ;	150%:30 sec	(shut down the	e bypass after	1 min)		
Overload Capability (Battery mode)	110%	: Shutdown a	fter 10mins; 12	25%:Shutdow	n after 10s;>1	25%: Shutdow	n after 1s		
Crest Ratio				3:1					
Display				LED+LCD					
Interface				RS232,SNMF)				
\//*D*U(mm)	250*526*645	250*526*645	050+544+705	050+544+705	250*526*765	050*544*705	050*544*705		
W*D*H(mm)	250*526*480	250*526*480	250"544"/05	250*544*705	250*526*645	250*544*705	250*544*705		
Not Woight/Kg)	58	64.5	22	22	67	00	22		
Net Weight(Kg)	17	19	33	33	25	33	33		

HT11 Series Tower Online UPS

1-3KVA (220V/230V/240V) 0.8-2KVA (110V/120V/127V)

Description

HT11 series is online double-conversion UPS with full DSP control technology. With high input and output power factor, self-adjusting output frequency, smart battery management system and network management, HT11 is a perfect choice for computers, telecommunication equipments and other sensitive devices.



Specification (220/230/240V)

Mode	el	HT1101S	HT1101L	HT1102S	HT1102L	HT1103S	HT1103L			
Capa	city	1K	VA	2K	VA	3K	VA			
Phase	е		S	ingle Phase in,	Single Phase o	ut				
		110VAC~288VAC								
Input	Voltage Range	100% load@>176VAC; 80% load@>154VAC 70% load@>132VAC; 50% load@>110VAC								
Input	PF			≥0.9	7					
Input	Frequency			40Hz~7	0Hz					
Outpu	ut PF			0.9						
Outpu	ut Voltage	220V/230V/240V								
Volta	ge Regulation	± 1 %								
THDu		≤2% THD, Linear Load								
וחטנ	ı	≤ 5.5% THD, None-linear ≤ 5% THD, None-linear ≤ 5% THD, None-linear								
Crest	Ratio			3:1						
Efficie	ency	87.0	%	91.09	%	90.09	%			
Noise)	<43dB@<70%Load, <47dB@>70%Load		<45dB@<70%Load, <50dB@>70%Load		<45dB@<70%Load, <50dB@>70%Load				
Overl	oad Capability	Inverter mo	ode: 105% ~ 130)%: to bypass at	ter 1 min;150%	: to bypass after	er 30Sec			
	, ,	Battery mo	ode:105% ~ 130	%:shutdown afte	er 10Sec ; 150	%:shutdown aft	er 5Sec			
	Model	12VDC/7Ah	Depends on External	12VDC/7Ah	Depends on External	12VDC/7Ah	Depends on External			
Battery	Quantity	3	battery	6	battery	8	battery			
Dattery	Max ChargingCurrent	1A	8A	1A	8A	1A	8A			
	Voltage	36VI	OC	72V	DC	96\	/DC			
Interfa	ice	RS232,EPO								
Option	nal	Intelligent kits, USB(B Type),SNMP, Surge protection								
W*D*l	H(mm)	145*35	3*222	190*37	'4*336	190*426*336				
Net W	/eight(Kg)	12	6	21	10.5	25.6	11.5			

Features

- Wide range of input voltage while input PF>99%
- Output PF of 0.9, more powerful load capability
- Full protection of overvoltage, circuit short and over temperature
- Network/fax/modem surge protection
- LCD/LED display, monitoring all the operation status
- Auto fan speed adjust
- Lighting and surge protection
- Abundant interface: RS232,USB, SNMP, Intelligent Card



Specification (110/120/127V)

	•	•							
Mode	I	HTL110800S	HTL110800L	HTL111500S	HTL111500L	HTL112000S	HTL112000L		
Capac	city	80	0VA	1500VA 2000			00VA		
Phase)		S	ingle Phase in,	Single Phase o	ut			
				55VAC~	155VAC				
Input '	Voltage Range	100% load@>96VAC; 80% load@>85VAC; 70% load@>70VAC; 50% load@>55VAC							
Input	PF			≥0.9	7				
Input	Frequency	40Hz~70Hz							
Outpu	t PF	0.9							
Outpu	t Voltage	110/115/120/127 VAC							
Voltag	e Regulation	± 1 %							
THDu		≤1% THD, Linear Load							
InDu		≤ 5.5% THD,	None-linear	≤ 5% THD, I	None-linear				
Crest	Ratio	3:1							
Efficie	ncy	87.0	0%	90.7	7%	90.49	%		
Noise		<43dB@< <47dB@>	70%Load, 70%Load	<45dB@< <50dB@>		<45dB@<70%Load, <50dB@>70%Load			
Overle	oad Capability	Inverter mode: 105% ~ 130%: to bypass after 1 min;150%: to bypass after 30Sec							
Oveni	рай Саравііі у	Battery mo	ode:105% ~ 130	%:shutdown aft	er 10Sec ; 150	%:shutdown aft	er 5Sec		
	Model	12VDC/7Ah	Depends on	12VDC/7Ah	Depends on	12VDC/7Ah	Depends on External		
Battery	Quantity	3	External battery	6	External battery	8	battery		
_anory	Max ChargingCurrent	1A	3.7A	1A	3.7A	1A	3.7A		
	Voltage	36VI	OC	72V	DC	96\	VDC		
Interf	ace			RS232	,EPO				
Optio	nal		Intelligent ki	ts, USB(B Type),SNMP, Surge	protection			
W*D*	H(mm)	145*35	54*228	190*37	76*336	190*428*336			
Net \	Weight(Kg)	12	6	21	10.5	25.6	11.5		

HR11Series Rack Online UPS

1-10KVA (220V/230V/240V)) 0.8-6KVA (110V/120V/127V)

Description

HR11 series is online double-conversion UPS with full DSP control technology. With 19 inch standard rack design, self-adjusting output frequency, smart battery management system and network management, HR11 is a perfect choice for computers, IT equipments and other sensitive devices.



Specification (220/230/240V)

opodinoution (22	0/200/2101/									
Model	HR1101S HR1101L	HR1102S HR1102L	HR1103S HR1103L	HR1106S HR1106L	HR1110S HR1110L					
Capacity	1KVA	2KVA	3KVA	6KVA	10KVA					
	110VAC~288VAC									
Input Voltage Range										
Input Frequency	40-70Hz									
Input PF		≥0.97		≥0	.99					
Voltage Regulation			±1 %							
Output Frequency			50Hz							
Output PF			0.9							
Overload Capability (Inverter mode)	105%~130%:to bypass 1 min; 130%: to bypass after 10 min; 130%: to bypass after 1min; 150%: to bypass after 30 sec, Shutdown after 1min									
Overload Capability (Battery mode)	105%~130%:Shutdown after 10sec; 110%: Shutdown after 10m 125%:Shutdown after 1									
Crest Ratio		;	3:1							
Efficiency	87%	91%	90%	(92%					
Display			LED+LCD							
Battery	36VDC	72VDC	96VDC	192\	/DC					
Interface		RS232	2, SNMP							
Optional	USB, SNMP, Dry Contactor, Parallel Kit USB, SNMP, ECO Kit, Dry Contactor, Parallel Kit, Battery Cabinet									
Operation Temperature			0-40°C	,	•					
Relative Humidity		0-9	5%(non-condensing	g)						
	440*430*86	440*480*173	440*480*173	438*680*218	438*680*218					
W*D*H(mm)	440*430*86	440*480*86	440*480*86	438*680*130	438*680*130					
Net Weight(Kg)	13.5/8	28/9.5	33/10.5	62/18.5	70.5/21.5					

Features

- Wide range of input voltage while input PF>99%
- Output PF of 0.9
- Full protection of overvoltage, circuit short and over temperature
- Network/fax/modem surge protection
- LCD/LED display, monitoring all the operation status
- 19 inch standard cabinet and battery cabinet
- Automatic fan speed adjustment
- Abundant interface: RS232,USB, SNMP, Intelligent Card





Specification (110/120/127V)

opcomodition (11	0/120/12/17								
Model	HRL110800S HRL110800L	HRL111500S HRL111500L	HRL112000S HRL112000L	HRL114000S HRL114000L	HRL116000S HRL116000L				
Capacity	800VA	1500VA	2000VA	4000VA	6000VA				
	55VAC~155VAC								
Input Voltage Range	100% load@>96VAC; 80% load@>85VAC; 70% load@>70VAC; 50% load@>55VAC								
Input Frequency	40-70Hz								
Input PF			≥0.98						
Voltage Regulation			±1 %						
Output Frequency	50Hz								
Output PF	0.9								
Overload Capability (Inverter mode)	110%: to bypass after 10 m 105%~130%:to bypass 1 min; 130%: to bypass after 1mi 150%: to bypass after 30sec 150%: to bypass after 30 so Shutdown after 1min								
Overload Capability (Battery mode)	105%~130%:Shutdown after 10sec; 110%: Shutdown after 125%:Shutdown after 5sec 125%:Shutdown								
Crest Ratio			3:1						
Efficiency	87%	90.7%	90.3%	86%	87%				
Display		LEC	D+LCD						
Battery	36VDC	72VDC	96VDC	192	VDC				
Interface			RS232, SNMP						
Optional	USB, SNMP, Dry Contactor, Parallel Kit USB, SNMP, ECO Kit, Dry Contactor Parallel Kit, Battery								
Operation Temperature	0-40°C								
Relative Humidity		0-9	95%(non-condensi	ng)					
W/P+U/	440*430*86	440*480*173	440*480*173	438*680*218	438*680*218				
W*D*H(mm)	440*430*86	440*480*86	440*480*86	438*680*130	438*680*130				
Net Weight(Kg)	13.5/8	28/9.5	33/10.5	62/18.5 70.5/21.5					

BU Series Offline UPS

500-3000VA

Description

The BU Series is offline UPS with the most advanced DSP control technology which can protect the sensitive device from utility fail, over /under voltage, surges, transients, spikes and other electrical abnormalities. With automatic boot voltage regulation and wide input voltage range, BU is a good choice to be applied to all kinds of complex power environment.

Features

- Automatic booting when the utility recovers
- Wide range of input voltage
- Alarm and mute
- Auto recharging
- Overvoltage and circuit short protection
- Interface of RJ45/11 and USB



Specification

Model	BU500	BU600	BU800	BU1000	BU1200	BU1500	BU2000	BU3000	
Capacity	500VA	600VA	800VA	1000VA	1200VA	1500VA	2000VA	3000VA	
Input Voltage		110/	220VAC						
Input Voltage Range		8	175~2	75VAC					
Input Frequency			50/60Hz(A	uto sensing)			50Hz		
Output Voltage		110/	120VAC or	220/230/240\	/AC		220VAC		
Output Voltage Range		•	102-132VAC	C/200-255VAC	;		200~2	40VAC	
Output Frequency			50/60H	z±0.5Hz			50Hz±	:0.5Hz	
Wave Form				PWM(DC mode)					
Transfer Time		7	ypical 2-6m	s,Max≦10ms	S		≦ 10ms		
QTY &Capacity of Battery	1*12V/4.5AH	1*12V/7AH	4*12V/7AH	4*12V/9AH					
Charging Period			4~6h to	90% capacity	/		10~16	hours	
Protection			Low voltage	ge, overload a	and short circ	cuit protection	1		
Operation Temperature				0~	-40°C				
Relative Humidity		20%~90%(non-condensing) 20%~90% (non-condensing)							
Noise	≤40dB								
Net Weight(Kg)	4	5.5	6	10.2	10.2	10.6	19	21	
Dimension(mm)	250*95*140 305*85*140 335*118*190 340*110*265							5 408*145*220	
Optional	LED/LCD,RJ45/11&USB								

DIV Series Power Inverter

1kVA/2kVA/3kVA/4kVA/5kVA/6kVA

Features

- CPU control technology
- SPWM technology with pure sine wave
- Powerful load capability and high compatibility
- Advanced reverse noise technology
- Settable to AC model and DC model
- Fault protection
- Interface : RJ45, dry contact



Specification

Specification											
Model		DIV500	DIV1000	DIV2000	DIV3000	DIV4000	DIV5000	DIV6000			
	Capacity	500VA	1000VA	2000VA	3000VA	4000VA	5000VA	6000VA			
DC Input	Input Voltage(Vdc) 12V/24V/48V/110V/220V										
	Reverse Noise Current ≤10%										
	Bypass Volt(Vac)	Bypass Volt(Vac) 265V-185V(±10V)									
AC Bypass	Input Current(A)	2.3	4.5	9.1	13.6	18.2	22.7	27.3			
	Transfer Time(ms)	≤5ms									
	Rated Capacity(VA)	500VA	1000VA	2000VA	3000VA	4000VA	5000VA	6000VA			
	Output Power(W)	400W	800W	1600W	2400W	2800W	3500W	4200W			
	Voltage and Frequency		220Vac,50Hz								
	Rated Current(A)	1.8	3.6	7.2	10.8	14.5	16	19.1			
AC Output	Voltage Precision(V)	220±1.5%									
	Frequency Precision(Hz) 50±0.1%										
	Wave Form	Sine wave									
	THDu	≤3%									
	Transient Response	5%									
	Power Factor(PF)	0.8/0.7									
	Overload Capability	110%, 30sec									
	Efficiency	≥85%									
	Transfer to Bypass				≤5ms						
	Isolation(IN/OUT) 1500Vac, 1min										
	Noise(1 meter)	≤40dB									
Environment	Operation Temperature	-25°C~+50°C									
	Relative Humidity	0~90%(non-condensing)									
	Altitude(m)				≤2000						
	Standard	4	82*356*88(5	500VA,1KVA	,2KVA) ; 482	2*388*88(3K	VA,4KVA,5k	(VA);			
Mechanical	(W*D*H)(mm)	482*400*176(6KVA)									
	Net Weight(Kg)		8.5Kg(50	0VA,1000VA	A,2000VA,30	00VA);12Kg	(4000VA)				

Battery Cabinet

Description

The battery cabinet is made of cold rolled steel or galvanization plates of high mechanical performance and bearing capacity. The compact structure with electrostatic spraying makes the cabinet more wear-resistant, corrosion-resistant and fireproofing. The cabinet is design as assembly type which is convenient for transportation. All these guarantee the reliability and safety for the UPS.



Specification

Model	Color	Materials	Weight	Layer	Size(mm)	QTY of Battery
C1A	Computer grey or black	Steel plates or galvanized plates	4.5Kg	1	540*210*230	17AH, 6PCS;24AH, 4PCS; 38AH 3PCS;
C3	Computer grey or black	Steel plates or galvanized plates	9Kg	1	585*470*320	17AH,14PCS;24AH,8PCS; 38AH ,6PCS; 65AH, 3PCS; 100AH 3PCS;
C6	Computer grey or black	Steel plates or galvanized plates	18Kg	2	585*470*615	17AH ,28PCS;24AH, 16PCS; 38AH, 12PCS; 65AH, 6PCS; 100AH 6PCS;
C8	Computer grey or black	Steel plates or galvanized plates	21Kg	2	780*470*615	17AH ,36PCS;24AH, 20PCS; 38AH, 16PCS;65AH ,8PCS; 100AH, 8PCS;
C12	Computer grey or black	Steel plates or galvanized plates	45Kg	4	780*470*1190	24AH,30PCS;38AH,24PCS; 65AH,12PCS;100AH,12PCS;
C16	Computer grey or black	Steel plates or galvanized plates	45Kg	4	780*470*1190	24AH,40PCS;38AH,32PCS; 65AH,16PCS;100AH,16PCS;
C20	Computer grey or black	Steel plates or galvanized plates	58Kg	4	950*470*1400	24AH,56PCS;38AH,40PCS; 65AH,20PCS;100AH,20PCS;
C40	Computer grey or black	Steel plates or galvanized plates	110Kg	5*2	950*880*1400	65AH,40PCS; 100AH,40PCS;
C40-120	Computer grey or black	Steel plates or galvanized plates	120Kg	4*2	950*880*1500	120AH,40PCS;
G40-150	Computer grey or black	Steel plates or galvanized plates	150Kg	4*2	1100*1070*1480	150AH,40PCS;
G40-200	Computer grey or black	Steel plates or galvanized plates	200Kg	4*2	1900*1230*1260	200AH,40PCS;

MF Series Sealed Lead Acid Battery

2V/6V/12V (4AH~3000AH)

Features

- Long life expectancy
- Maintenance free
- Low self discharging
- High reliability



Specification

	Detect Veltere	Consoity		Weight(±5%)			
Model	Rated Voltage (V)	Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Total Height (mm)	(Kg)
MF4-12	12	4	91	71	102	108	1.4
MF7-12	12	7	151	65	94	100	2.15
MF9-12	12	9	151	65	96	100	2.5
MF12-12	12	12	151	98	95	101	3.4
MF17-12	12	17	181	77	167	171	5.2
MF24-12	12	24	166	175	125	129	7.6
MF38-12	12	38	197	165	170	170	12.4
MF65-12	12	65	350	167	179	179	19.6
MF100-12	12	100	328	171	214	220	30.5
MF120-12	12	120	410	176	227	227	33.5
MF150-12	12	150	482	170	242	242	44.5
MF200-12	12	200	522	238	218	222	60
MF250-12	12	250	520	269	220	224	69.5
MF4-6	6	4	70	47	101	107	0.65
MF7-6	6	7	151	34	94	100	1.08
MF9-6	6	9	98	56	117	117	1.35
MF12-6	6	12	151	50	94	100	1.7
MF100-6	6	100	195	170	207	213	16.5
MF150-6	6	150	260	180	247	251	23.5
MF200-6	6	200	250	125	362	366	31
MF300-6	6	300	295	178	345	350	47
MF100-2	2	100	171	72	206	211	6.3
MF150-2	2	150	172	102	205	227	8.1
MF200-2	2	200	173	111	330	364	13.5
MF250-2	2	250	173	111	330	364	15.5
MF300-2	2	300	171	151	330	364	18.5
MF350-2	2	350	171	151	330	364	21
MF400-2	2	400	210	176	330	367	25.5
MF450-2	2	450	210	176	330	367	28
MF500-2	2	500	241	175	330	365	32
MF600-2	2	600	302	175	330	367	37
MF800-2	2	800	410	175	330	367	52
MF1000-2	2	1000	475	175	330	367	61
MF1200-2	2	1200	475	175	330	367	71
MF1500-2	2	1500	400	350	345	382	92
MF2000-2	2	2000	490	350	345	382	119
MF2500-2	2	2500	490	350	345	382	140
MF3000-2	2	3000	710	350	345	382	184