



ATTOM

Mission Critical Power System

Specialist Support+

Flexible Customization+

Attom mission critical power system is specially designed for data center application, to provide highly reliable and scalable power protection & distribution for mission-critical IT systems.



Let's Simplify IT

Uninterrupted Power Supply

Rack Mount UPS

Capacity Range: 3~30kVA

The standard 19" rack mount design makes it easy to install in a variety of racks, similar to the appearance of IT equipment.



Key Features:

- High-performance MCU control for higher reliability
- Output PF:0.8/0.9/1
- Ultra-wide voltage input range for harsh grid environments
- Multiple protection functions such as overload, short circuit, over voltage, under voltage and bypass
- Intelligent battery management features to extend battery life
- Online double-conversion UPS
- Support multiple voltage specifications:110/120V, 220/380V
- Ultra-wide input frequency, adaptive output frequency 50/60Hz
- Powerful network management function, optional SNMP , Modbus, providing a variety of monitoring methods. Standard RS232 interface

Uninterrupted Power Supply

Rack Mount UPS



Technical Data									
230/400V Series						120/208V Series			
Model	U-003R11H	U-006R11H	U-010R11H	U-020R33H	U-030R33H	U-003R11U	U-006R11U	U-006R22U	U-010R33U
Capacity	3kVA	6kVA	10kVA	20kVA	30kVA	3KVA	6KVA	6KVA	10KVA
Input									
Input Phase	1		3			1	1	2	3
Voltage	208/220/230/240Vac			380/400/415Vac		110/120/127Vac		120/208Vac, 120/240Vac	120/208Vac
Acceptable Voltage Range	160-300Vac	110-300Vac		208-478Vac		55 -145 Vac	55 -155 Vac	88-155 Vac	88-155 Vac
Frequency Range	40-70Hz	46-54Hz or 56-64Hz		40-70Hz		40-70Hz			
Input Power Factor	≥0.99					≥0.99			
Output									
Output Phase	1 Phase			3 Phase		1	1	2	3
Output Voltage	208/220/230/240Vac			380/400/415Vac		110/120/127Vac		120/208Vac, 120/240Vac	120/208Vac
Output Power Factor	0.8	1		1	0.9	0.8		1	0.8
AC Voltage Regulation	±1%					±1%			
Current Crest Ratio	3:1					3:1			
frequency	50/60Hz					50/60Hz			
Harmonic Distortion	≤3%(100% linear load)	≤1%(100% linear load)		≤2%(100% linear load)		≤3%(100% linear load)		≤2%(100% linear load)	
Efficiency									
AC Mode	90%	94%	94%	95%	95%	90%	90%	91%	92%
Battery									
Battery Voltage	72/96Vdc	240Vdc	240Vdc	±192/±204/±216/±228/240Vdc		72/96Vdc	192Vdc	±96/120Vdc	
Charging Current	4A Max.			10A Max.		6A Max.		±4A	
Environment									
Operational Condition	0-40C, 0-95%RH (no condensing)					0-40C, 0-95%RH (no condensing)			
Physical									
Dimension (W*D*H) mm	438*410*88(2U)	438*600*88(2U)	438*600*88(2U)	443*630*131(3U)		438*410*88(2U)	438*680*130(3U)	418*678*129 (3U)	418*678*129 (3U)
Weight	14kg	15kg	18kg	32kg	33kg	14.2kg	21.5kg	17.6kg	21kg
Management									
Monitoring Access	RS232, Optional SNMP					RS232, Optional SNMP			

Uninterrupted Power Supply

Rack Mount Modular UPS

Capacity Range: 20~200kVA

Modular UPS is a hot-swappable, highly scalable online dual-conversion product that uses advanced IGBT three-level conversion and dual DSP control technology for high ease of use and reliability.



Key Features:

- compatible with 19" standard rack cabinet, convenient to be integrated into server cabinet
- Output PF: 1
- 7" touch color LCD, more information displayed and easier for customer to operate
- 10/15/25kVA power module in 2U height, saving great amount of space
- System can intelligently shut down some power modules to increase total load rate, achieving higher efficiency
- Modular design, support for hot swap

Uninterrupted Power Supply

Rack Mount Modular UPS



Technical Data

400V 3P Series						208V 3P Series			
Model	U-045M33H	U-060M33H	U-090M33H	U-150M33H	U-200M33H	U-020M33U	U-030M33U	U-050M33U	
Host Capacity	45kVA	60kVA	90kVA	150kVA	200kVA	20kVA	30kVA	50kVA	
Input									
Input Phase	3 Phase					3 Phase			
Voltage	380/400/415Vac					208/220Vac			
Acceptable Voltage Range	304 ~ 478VAC: 100% load, 304 ~ 228VAC Linear derating between 100% and 75% load					187~260Vac (Line-Line),full load; 125V~187Vac (Line-Line),load derated linearly			
Frequency Range	40-70Hz					40-70Hz			
Input Power Factor	≥0.99					≥0.99			
Output									
Output Phase	3 Phase					3 Phase			
Output Voltage	380/400/415Vac					208/220Vac			
Output Power Factor	1					1			
AC Voltage Regulation	±1%					±1%			
Current Crest Ratio	3:1					3:1			
frequency	50/60Hz					50/60Hz			
Transfer Time	AC mode to Battery mode: 0ms; Inverter mode to bypass mode: 0ms					AC mode to Battery mode: 0ms; Inverter mode to bypass mode: 0ms			
Overload	Load≤110%, 60min; ≤125%, 10min; ≤150%, 1min; >150%, to bypass;					110% for 10 min; 125% for 1 min; 150% for 30 s; >150% for 200ms			
Harmonic Distortion	≤1%(100% linear load), ≤6%(100% nonlinear load)					THD<1% (linear load), THD<5.5% (non-linear load)			
Efficiency									
AC Mode	95.5%					95.5%			
Power module									
Module capacity	15KVA	10KVA	15KVA	25KVA	25KVA	10KVA			
Maximum number of modules	3	6	6	6	8	2	3	5	
Battery									
Battery Voltage	±192/±204/±216/±228/240/264Vdc					±120Vdc			
Charging power	20%*System Power					20%*System Power			
Environment									
Operational Condition	0-40C, 0-95%RH (no condensing)					0-40C, 0-95%RH (no condensing)			
Noise	56dB @ 100% load			65dB @ 100% load		58dB @ 100% load			
Physical									
Dimension (W*D*H) mm	Host	485*751*485 (11U)	485*751*928 (21U)	485*751*928 (21U)	482*916*840 (19U)	482*916*1550 (35U)	485*697*398 (7U)	485*751*575 (11U)	485*751*1033 (20U)
	Module	436*590*85 mm (2U)			436*677*85 (2U)		436*590*85 (2U)		
Weight (kg)	Host	119	175	175	224	344	42	52	85
	Module	15.3	15.9	15.9	18	18	16		

Uninterrupted Power Supply

Modular UPS

Capacity Range: 25~500kVA

The modular UPS designed to protect any critical load for medium and larger data center achieving maximum availability. This series feature the latest technology of 3-level technology and PFC input control, which guarantees high efficiency of 95% and ultra-reliability, making it an excellent choice for medium and larger facilities.



Key Features:

- Each power module has an independent LCD, gives users' direct overview of status data and alarms in real time.
- Output PF: 0.9/1
- 7" touch color LCD, more information displayed and easier for customer to operate
- 25~50kVA high power module, saving great amount of space
- System can intelligently shut down some power modules to increase total load rate, achieving higher efficiency
- Modular design, support for hot swap

Uninterrupted Power Supply

Modular UPS

400V 3P Series



Technical Data

Model							U-150M33H		U-250M33H		U-300M33H		U-400M33H		U-500M33H	
Host Capacity							150kVA		250kVA		300kVA		400kVA		500kVA	
Input																
Input Phase							3 Phase									
Voltage							380/400/415Vac									
Acceptable Voltage Range							304 ~ 478VAC: 100% load, 304 ~ 228VAC Linear derating between 100% and 75% load									
Frequency Range							40-70Hz									
Input Power Factor							≥0.99									
Output																
Output Phase							3 Phase									
Output Voltage							380/400/415Vac									
Output Power Factor							1				0.9					
AC Voltage Regulation							±1%									
Current Crest Ratio							3:1									
frequency							50/60Hz									
Transfer Time							AC mode to Battery mode: 0ms; Inverter mode to bypass mode: 0ms									
Overload							Load≤110%, 60min; ≤125%, 10min; ≤150%, 1min; >150%, 200ms to bypass;									
Harmonic Distortion							≤1%(100% linear load), ≤5%(100% nonlinear load)									
Efficiency																
AC Mode							> 95%					> 96%				
Power module																
Module capacity							25KVA		25KVA		30KVA		40KVA		50KVA	
Maximum number of modules							6		10		10		10		10	
Battery																
Battery Voltage							±192/±204/±216/±228/240/264Vdc									
Charging power							20%*System Power									
Environment																
Operational Condition							0-40C, 0-95%RH (no condensing)									
Noise							72dB @ 100% load									
Physical																
Dimension (W*D*H) mm		Host	600*1100*1600		600*1100*2000				1300*1100*2000							
		Module	460*790*134						510*700*178							
Weight (kg)		Host	178		242		242		450		460					
		Module	33		33		34		44		45					

Uninterrupted Power Supply

Tower Type UPS

Capacity Range: 30~200kVA

Designed in small footprints with DSP technology and active input power factor correction design to ensure better output voltage conditions, power quality and power performance at all times..



Key Features:

- True double-conversion
- DSP technology guarantees high performance
- High output power factor: 1
- Active power factor correction in all phases 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving (ECO)
- Emergency power off function (EPO)
- SNMP+USB+RS-232 multiple communications
- 3 -stage extendable charging design for optimized battery performance
- Adjustable battery numbers for long-run model
- Maintenance bypass available
- Optional parallel operation up to 4 units
- 7" touch LCD panel
- Optional Isolation transformer

Uninterrupted Power Supply

Tower Type UPS

400V 3P Series



Technical Data										
Model	U-010T33HM	U-020T33HM	U-030T33HM	U-040T33HM	U-060T33HM	U-080T33HM	U-100T33HM	U-120T33HM	U-160T33HM	U-200T33HM
Capacity	10kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA	160kVA	200kVA
Input										
Input Phase	3 Phase									
Voltage	3 x 400 VAC									
Acceptable Voltage Range	190-520 VAC (3-phase) @ 50% load ; 305-478 VAC (3-phase) @ 100% load									
Frequency Range	40-70 Hz									
Input Power Factor	≥ 0.99 @ 100% Load									
Output										
Output Phase	3 Phase									
Output Voltage	3 x 360°/380/400/415 VAC									
Output Power Factor	1						0.9			
AC Voltage Regulation	±1%									
Current Crest Ratio	3:1									
frequency	50/60Hz									
Transfer Time	0									
Overload	AC Mode: 100-110% for 60 min, 110-125% for 10 min, 125-150% for 1 min, >150% 400ms									
Harmonic Distortion	≤ 1% THD (Linear Load) ; ≤ 3% THD (Non-linear Load)						≤ 2% THD (Linear Load) ; ≤ 4% THD (Non-linear Load)			
Parallel Capacity	4						2			
Efficiency										
AC Mode	96%						94%			
ECO Mode	99%						98%			
Battery Mode	96%						93%			
Battery										
Battery Voltage - Vdc	±96~120	±192~240					±192~240			
Charging Current - A	1-12			1-16	2-32		24	32	40	48
Environment										
Operational Condition	0-40°C, 0-95%RH (no condensing)									
Noise Level	< 60dB @ 1 Meter		< 63dB @ 1 Meter		< 65dB @ 1 Meter		< 70dB @ 1 Meter		< 73dB @ 1 Meter	
Physical										
Dimension (W*D*H) mm	250*630*827		300*815*1000		360*790*1010		567*940*1015		567*1040*1452	
Weight - kg	37	40	65	67	110	116	199	234	306	340
Management										
Monitoring Access	RS232 or Optional SNMP									

DC Power System

Capacity range: 30~200A

Attom's -48VDC power system comes with standard 19-inch rack mount design with a wide range of AC inputs, intelligent battery management and remote monitoring.



Rack-Mount DC Power



Controller



Rectifier module

Key Features:

- Up to 95% efficiency
- Rectifier module adopts non-destructive hot swap technology, Plug and Play, Replacement time is less than 1 minute
- Intelligent battery management system to delay battery life
- 1~6U High density frame design
- High temperature resistance, still 100% output at 55C.
- Modular design, support for hot swap
- Standard lightning protection design for harsh environments
- Support multi-channel serial port, dry contact, network interface output, realize remote monitoring

DC Power System

-48VDC Power System



Technical Data				
Model	T-48060RN	T-48090RN	T-48150RN	T-48200RN
AC Input				
Input Phase	1	1	1	1
Voltage	220Vac or 220/380Vac, Compatible with 110V /2phase			
Acceptable Voltage Range	85~300Vac			
Frequency Range	45~65Hz			
Input Power Factor	>0.99			
Lightning protection	10/20KA			
THD	≤5% (for 50~100% load)			
DC Output				
Output Voltage	-42~-58Vdc, Rating: -53.5V			
Rated current (A)	60	90	150	200
Load Switch①	Terminal	1*10A, 1*30A, 2*40A	2*12A, 2*20A, 4*40A	1*16A, 8*32A, 80A
Battery Switch	Terminal	1*80A	1*100A	2*125A
Display and communication				
Display type	LCD			
Monitoring Access	RS232/485			
Power module				
Module capacity	30A	30A	30A	50A
Maximum number of modules	2	3	5	4
Efficiency	Up to 96%			
Environment				
Operational Condition	-40 ~ +55℃, 0-95%RH (no condensing)			
Heat dissipation method	Fan cooling			
Working altitude	< 4000m			
IP Level	IP20			
Noise	50dB			
Physical				
Dimension (W*D*H) mm	442*255*44(1U)	442*255*88(2U)	483*255*132(3U)	483*330*221(5U)

① Customizable according to customer requirements.

Power Distribution System

Rack PDU

Rack PDU(Power Distribution Unit) provide power distribution, management and monitoring capabilities directly to IT equipment, It has been widely applied in data centers.

Attom PDU organized into the following four categories: Basic PDU, Metered PDU, Monitored PDU and Managed PDU.



Key Features:

- Support rack-mounted and vertical-mounted in cabinet;
- The maximum number of sockets is 42 bits, supporting various socket types such as IEC, BS, NEMA, GB, etc;
- Maximum input current 63A, support one-phase, two-phase, three-phase and other voltage input specifications;
- With environmental monitoring, power monitoring, control, management, lightning protection and other functions;
- Full metal housing design, and has passed strict safety test, safe and reliable.



Power Distribution System

Rack PDU



Technical Data				
Model	Basic PDU	Metered PDU	Monitored PDU	Managed PDU
General data				
input current	10~63A			
input voltage	110~460Vac			
input phase	1phase, 2phase, 3phase			
output sockets NO.	6~42			
output sockets type	IEC, BS, NEMA, GB			
Installation method	rack-mounted / vertical-mounted			
Shell material	sheet metal			
Main functions				
monitoring	-	-	●	●
switching	-	-		●
energy metering	-	●	●	●
system settings	-	-	●	●
alarm notification	-	●	●	●
breaker status monitoring	-	●	●	●
remote firmwave upgrade	-	-	●	●
event and data logs	-	-	●	●
multiple network and security protocols	-	-	●	●
display	-	●	●	●
adjustable display direction	-	-	●	●
feature extension port	-	-	●	●
Temperature & humidity/somke/water leakage/door contact and logical ports	-	-	●	●
power cut-off protection when overload	-	-	-	●
acces mode	-		SNMP V1,V2,V3, Telnet, Modbus	

Applicable socket type



IEC 320 C13



IEC 320 C19



AS/NZS-10A



AS/NZS-15A



NBR 14136



GB 1002/10A



GB 1002/16A



SR 107-2-D1



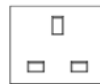
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NF-C61-314



INDIA SOCKET



BS 1363(90°)



NEMA 5-15R

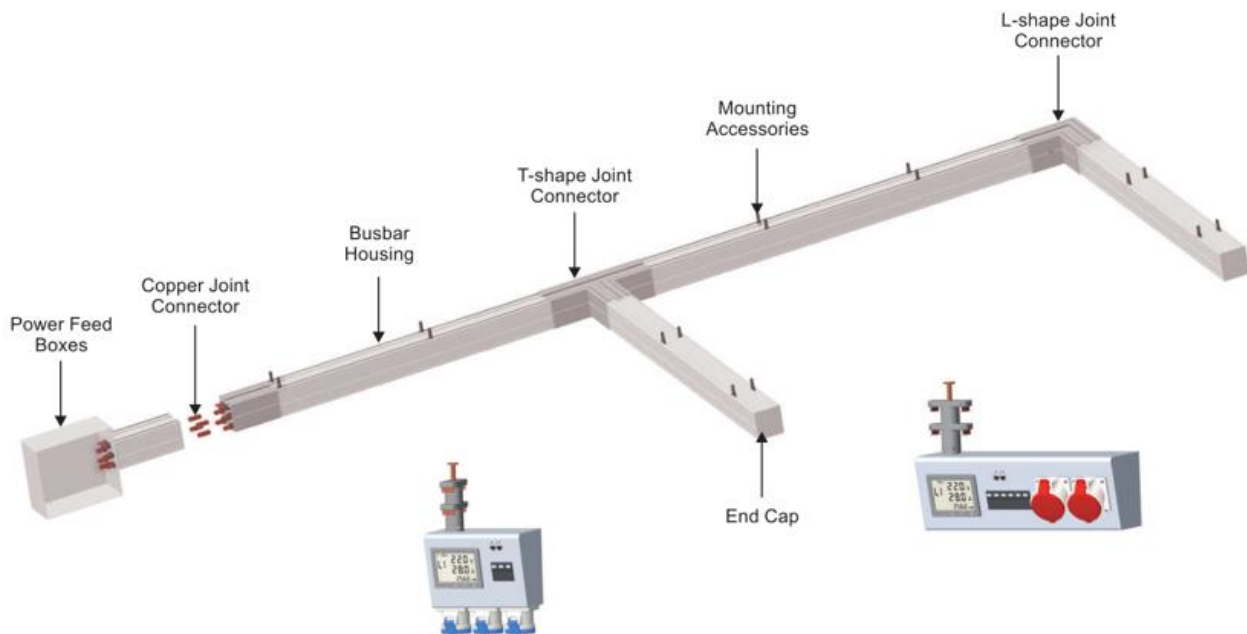


NEMA 5-20R

Power Distribution System

Busway Power Distribution

Atom's busbar products include energy management, distributed intelligent power security system, and low-voltage busbar distribution technology. It's the newest ideal solution to replace the traditional power distribution cabinet in data center.



Key Features:

- System structural components are modular in design, plug and play
- Customized production according to project requirements, fast delivery
- Increase or decrease power distribution output without power failure, support AC/DC, 1-phase/3-phase power output
- Integrate power management, security protection and other technologies to ensure safe and reliable operation of data centers
- Simple operation and maintenance, free line maintenance, and service life of up to 30 years

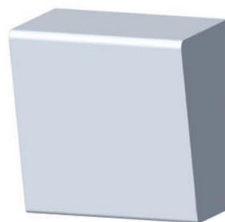
Power Distribution System

Busbar Housing

Technical Data						
P/N	Current (A)			Voltage(V)	Independent Grounding	Dimension (L*W*H) (mm)
600			600	400	Yes	3000*152*163
						2000*152*163
						1000*152*163
260		250	400	400	Yes	3000*108*146
						2000*108*146
						1000*108*146
160	-	160	250	400	Yes	3000*88*145
						2000*88*145
						1000*88*145

Power Feed Box

The feed box connects a power source to distributed power throughout the busbar system. It can monitor various power parameters, switch status and temperature of the main road.



Basic



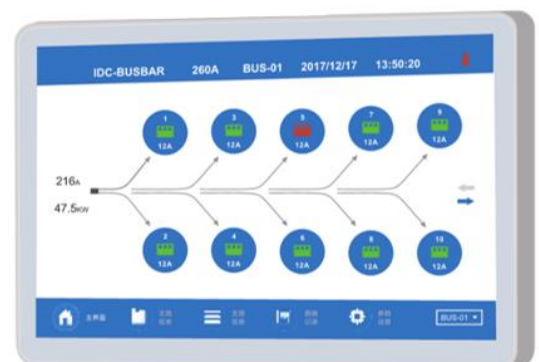
Metered



Monitored







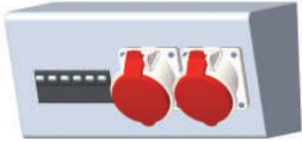
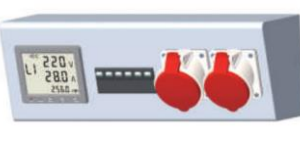

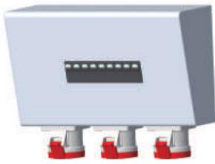


Intelligent Main Control Box

It's a monitoring unit of busbar system, monitor Power Feed Boxes and Tap-off Boxes centrally, and display and process the collected data in a unified manner. The NET port and Modbus-RTU are also available with main control box, which can support multiple communication mode and protocols.



Power Distribution System

Tap-off Box

Type	Basic	Metered	Monitored
Drop cord output			
Angled panel mounted socket output			
Angled panel mounted socket output			
Panel mounted socket output			

Tap-off Box specification

Technical Data												
type	Input/output voltage		Output current (A)	Output specification						Output mode		
	AC	DC		Single output		Dual outputs		Tripple outputs		Drop cord output	Connectors	
				AC	DC	AC	DC	AC	DC		Angled panel mounted socket	panel mounted socket
Basic	●	●	16/32/63	●	●	●	●	●	○	●	●	●
Metered	●	●	16/32/63	●	●	●	●	●	○	●	●	●
Monitored	●	●	16/32/63	●	●	●	●	●	○	●	●	●

Power Distribution System

Rack Mount Power Distribution Module



Attom PDM(Power Distribution Module) is a rack mount type power management and distribution system, with built in power protection, power distribution, power management, and power metering function, for all the power branches of UPS, cooling, IT, and others within Attom Micro Data Center.

Key Features:

- Compact rack mount design seamless integration into rack installation
- All in one design managing all the power distribution of UPS, cooling and IT braches
- Built in UPS manual by-pass line.
- Minimum Height 3U, Save the space inside the cabinet
- The output branch power can be monitored
- Built in surge protection
- Support PUE calculation with power meters of main power input and UPS power output
- Flexible customization adjusting breakers and power lines
- All-metal enclosure, safe and reliable
- Support 2N dual loop design

Battery System

Lithium-iron Battery Module

Lithium iron phosphate battery has higher power density and longer life than lead-acid battery.



Key Features:

- High performance lithium iron phosphate battery, light weight, high temperature resistance and long life
- Intelligent balance management, support intra-module equalization and inter-module balance
- State of charge (SOC) $\leq 5\%$
- Optional LCD display for real-time display of battery and BMS status
- Supports communication with UPS, RS485 and CAN2.0, and supports multi-channel trunk contacts.

Technical Data			
Battery type	3.2V50Ah	3.2V100Ah	3.2V50Ah
Package type	48V50Ah	48V100Ah	96V50Ah
Battery number	15 pcs	15 pcs	30 pcs
BMS	Built into the battery package	Built into the battery package	Built into the battery package
Dimension (WxDxH) mm	442*435*132 (3U)	442*435*152 (4U)	442*600*220 (5U)
Weight (kg)	25	52	50

① Customizable according to customer requirements.

Customer Success

Past customers from below organizations, regions use the products designed by our team.

Choose us to bring success to your data center.



We believe the world is
being totally connected.

The connections are
creating digital intelligence
and a better future.

We create micro data
center products to
accelerate connections
and intelligence
throughout to the edges.

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