

# Data Center and Facility UPS

In IT world, data security needs reliable power protection.

**Application** 

Data center, Government, Public infrastructures, Army, Aerospace, Communication, Transportation, Broadcast & TV, Finance, Health Care, Education & Research, Enterprise, Automated production line ......

PowerIT® modular UPS, special used to IDC data center, is a high-end product launched to market by Network Engineering adopting "Energy saving, green, environmental protection" concept. It delivers the best combination of rectifier, filter, charger, inverter and intelligent power protection. Applying innovative current sharing rectifier control, master-slave synchronization in sequence control, multi-level decentralized control and 3-level sine wave modulation technology, it features great efficiency, flexibility and reliability, reduces the investment, operation, maintenance cost.

PowerIT® modular UPS is a new type modular UPS, which integrated digital technology and new semiconductor technology, can completely eliminate the impact of various grid problems on key loads. Adopting 15KVA, 25KVA, 50KVA, 75KVA power modules, it features high power density, reliable, high efficiency and intelligence, provides ideal protection for customers' large and medium power supply applications.

Environment friendly

Provide green power to the load and stable power to the grid.

Safe & Reliable

Non master-slave parallel technology, multi-level decentralized control technology, parallel redundancy design, no single-point faults, and fault isolation.

Intelligent & convenient

Adopting full digital control technology, standard interface configured RS232/RS485, CAN port, USB, dry contact card, SD card, optional SNMP card, MODBUS card. Large-screen and intelligent monitoring system, supports online, remotely and real-time monitoring, makes it more intelligent and convenient for operation.

Wide applications

Closely pay attention to market requirements, develop new generation of 15kVA, 25kVA, 50kVA, 75kVA power modules, single system capacity range from 30kVA to 1200kVA, support 4 units in parallel, maximum capacity up to 4800kVA; single system adopts standard 19-inch cabinet, reasonable layout, meet multiple applications.

## **Features**

## **Safety & Reliability**

Multiple redundancy measures, perfect fault isolation protection

Advanced DSP digital control technology

Non master-slave parallel, multi-level decentralized control technology

All power modules share the battery bank

Adaptive lithium battery system, complete battery management function

## **High Efficiency & Energy Saving**

Double conversion mode efficiency up to 96.5%, ECO efficiency up to 99%, iECO efficiency up to 99.5%.

Continuous current mode (CCM) is adopted for AC input , input THDI < 3%, input PF > 0.99, greatly reduced interference to power grid (RFI/EMI)

Output power factor is 1, greatly enhanced ability of carrying load

Power module sleep mode settable, automaticly adjust quantity of working modules .

### **Great Flexibility**

Modular design, hot swappable, supports fast online repair, capacity expansion, and upgrade;

2N, N+1, Δ2N multiple power supply solutions;

Any power module has a balanced distribution function for input, output and charging power;

Standard structure design, compact footprint, less weight, meets the load-bearing requirements of ordinary buildings;

Air flow from front to rear or top, installation against wall;

Gensets soft start function;

Energy storage function.

## Systems based on 15kVA module

Model: **MCM-30/15** 

Max. Capacity of system: 30KVA

Configuration: 2 slots

Power module model: **M15**Power module capacity: **15KVA** 

Dimension: 482/442\*800\*662(W\*D\*H)mm, stand alone or embed into standard 19" cabinet

Model: MCM-60/15

Max. Capacity of system: **60KVA** 

Configuration: 4 slots

Power module model: **M15**Power module capacity: **15KVA** 

Dimension: 482/442\*800\*840(W\*D\*H)mm, stand alone or embed into standard 19" cabinet

Model: **MCM-120/15** 

Max. Capacity of system: 120KVA

Configuration: **8 slots**Power module model: **M15**Power module capacity: **15KVA** 

Dimension: 482/442\*800\*1195(W\*D\*H)mm, stand alone or embed into standard 19" cabinet

### **M15 Module Data**

Phase	Charging current	Max Charging Power	Max heat dispassion	Input PF	Input THDI	Dimension (W*D*H)mm	Weight
3/3	3A	1.8kW	450W	≥ 0.99	< 3%	422/380*590*86	16kg

## **UPS SYSTEM TEHCNICAL SPECIFICATION**

Model		MCM-30/15	MCM-60/15	MCM-120/15			
System Capaci	ty (kVA/kW).	30 kVA/kW	60 kVA/kW	120 kVA/kW			
INPUT							
Phase			3Ph+N+PE				
Nominal Input	Voltage	380\	//220VAC, 400V/230VAC, 415V/240VA	AC			
Input Voltage I	Range	132-2	276 VAC, (If 132-176VAC, 50% load ma	ax.)			
Input Frequen	су		40-70Hz				
Power Woke-ir	۱		60sec				
THDI			< 3%				
Power Factor			≥ 0.99				
Bypass Voltage	e Range		± 20%				
Bypass Freque	ncy Range		50/60 ± 10%				
Bypass synchro	onization tracking range		50/60 ± 4%				
Output							
Power Factor			1.0				
Nominal Outp	ut Voltage	380\	//220VAC, 400V/230VAC, 415V/240VA	AC			
Output Freque	ency Range		50/60 ± 0.5HZ				
Frequency Trac	cking Range		50/60 ± 10%				
Overload Abili	ty	10 minutes at 125%					
Output Voltage	e THD	≤ 1% (Linear load), ≤ 2% (Non-linear load)					
Output Voltage	e Tolerance	≤ ±1%					
Voltage Recov	ering Time	≤ 20ms					
Transfer From I	Mains to Battery Supply	0ms					
Efficiency		Up to 97.1% in Double conversion mode from 40 to 100 %, Up to 99% in ECO mode, Up to 99.5% in iECO mode					
Battery							
Battery Rated \	/oltage	± 240V DC					
Battery Voltage	e Range	± 168V DC~ ± 320V DC					
VRLA Battery		40 (Range 32-44)					
Access to Lithi	um-ion Battery	Standard					
Environmental							
Operating Tem	perature		-5°C ~ 40°C				
Operating Rela	ative Humidity		≤ 95%, non-condensation				
Noise			≤ 60 dB				
Altitude		5000 m, derating if 1000 above					
Protection Clas	SS		IP20				
Others							
Parallel Config	uration		Up to 4 units (N+1)				
EPO			Support				
Communication		RS232/RS485, CAN, USB, Dry contact, SD Card as standard. MODBUS, SNMP (optional)					
Safety Compliance			IEC/EN 62040-1, IEC/EN 60950-1				
EMC Compatibility & Performance			IEC/EN 62040-2, IEC/EN 62040-3				
Dimension	Standard (1*breaker)	482/442*800*662	482/442*800*840	482/442*800*1195			
(W*D*H)mm	Optional (4 breakers)	402/442 000 002	702/772 000 040	482/442*800*1500			
Weight (kg)		72	82	108			

## Systems based on 25kVA module

Model: **MCM-150/25** 

Max. Capacity of system: 150KVA

Configuration: **6 slots**Power module model: **M25**Power module capacity: **25KVA** 

Dimension: 600\*1000\*1600(W\*D\*H)mm, standard 19" cabinet

Model: **MCM-250/25** 

Max. Capacity of system: 250KVA

Configuration: **10 slots**Power module model: **M25**Power module capacity: **25KVA** 

Dimension: 600\*1000\*2000(W\*D\*H)mm, standard 19" cabinet

### **M25 Module Data**

Phase	Charging current	Max Charging Power	Max heat dispassion	Input PF	Input THDI	Dimension (W*D*H)mm	Weight
3/3	5A	3kW	750W	≥ 0.99	< 3%	482/442*590*86	19kg

## **UPS SYSTEM TECHNICAL SPECIFICATION**

Model		MCM-150/25	MCM-250/25			
System Capacity (kVA/kW).		150 kVA/kW	250 kVA/kW			
INPUT						
Phase		3Ph+N+PE				
Nominal Input Voltage		380V/220VAC, 400V/230VAC, 415V/240VAC				
Input Voltage R	ange	132- 276 VAC, (If 132-176VAC, 50% load max.)				
Input Frequenc	у	40-70Hz				
Power Woke-in		60s	ec			
THDI		<:	3%			
Power Factor		≥ 0	.99			
Bypass Voltage	Range	± 2	0%			
Bypass Frequer	ncy Range	50/60	±10%			
Bypass synchro	nization tracking range	50/60	±4%			
Output						
Power Factor		1.	0			
Nominal Outpu	t Voltage	380V/220VAC, 400V/230	DVAC, 415V/240VAC			
Output Frequer	ncy Range	50/60±	0.5HZ			
Frequency Trac	king Range	50/60=	±10%			
Overload Ability		10 minutes at 125%				
Output Voltage THD		≤1% (Linear load), ≤ 2% (Non-linear load)				
Output Voltage	Tolerance	≤ ±1%				
Voltage Recove	ring Time	≤ 20ms				
Transfer From N	Mains to Battery Supply	0ms				
Efficiency		Up to 96.5% in Double conversion mode , Up to 99% in ECO mode , Up to 99.5% in iECO mode				
Battery						
Battery Rated V	oltage	± 240	V DC			
Battery Voltage	Range	± 168V DC~±320V DC				
VRLA Battery		40 (Range 32-44)				
Access to Lithiu	ım-ion Battery	Standard				
Environmental						
Operating Temp	perature	-5 ^	-40			
Operating Relat	tive Humidity	≤ 95%, non-c	ondensation			
Noise		≤ 65	dB			
Altitude		5000 m, derating	g if 1000 above			
Protection Class	S	IP2	20			
Others						
Parallel Configuration		Up to 4 ur	nits (N+1)			
EPO		Supp	port			
Communication		RS232/RS485, CAN, USB, Dry contact, SD Card as standard. MODBUS, SNMP (optional)				
Safety Compliance		IEC/EN 62040-1, IE	C/EN 60950-1			
EMC Compatibility & Performance		IEC/EN 62040-2, IE	C/EN 62040-3			
Dimension	Standard (1*breaker)	600*1000*1600	600*1000*2000			
(W*D*H)mm	Optional (4 breakers)	500 1000 1000	530 1000 2000			
Weight (kg)		170	220			

## Systems based on 50kVA module

Model: MCM-200/50

Max. Capacity of system: 200KVA

Configuration: **4 slots**Power module model: **M50**Power module capacity: **50KVA** 

Dimension: 600\*1000\*2000(W\*D\*H)mm, standard 19" cabinet

Model: MCM-300/50

Max. Capacity of system: 300KVA

Configuration: **6 slots**Power module model: **M50** 

Power module capacity: 50KVA

Dimension: 900\*1000\*2000(W\*D\*H)mm, standard 19" cabinet

Model: MCM-400/50

Max. Capacity of system: 400KVA

Configuration: **8 slots**Power module model: **M50**Power module capacity: **50KVA** 

Dimension: 900\*1000\*2000(W\*D\*H)mm, standard 19" cabinet

Model: **MCM-500/50** 

Max. Capacity of system: **500KVA** 

Configuration: 10 slots

Power module model: **M50**Power module capacity: **50KVA** 

Dimension: **1200\*1000\*2000**(W\*D\*H)mm, standard 19" cabinet

### **M50 Module Data**

Phase	Charging current	Max Charging Power	Max heat dispassion	Input PF	Input THDI	Dimension (W*D*H)mm	Weight
3/3	10A	6kW	1500W	≥ 0.99	< 3%	482/442*622*129	30kg

## **UPS SYSTEM TECHNICAL SPECIFICATION**

Model		MCM-200/50	MCM-300/50	MCM-400/50	MCM-500/50		
System Capacity	(kVA/kW).	200 kVA/kW	300 kVA/kW	400 kVA/kW	500 kVA/kW		
NPUT							
Phase		3Ph+N+PE					
Nominal Input Vo	oltage		380V/220VAC, 400V/230VAC, 415V/240VAC				
nput Voltage Ra	nge		132- 276 VAC, (If 132-17	6VAC, 50% load max.)			
nput Frequency	,		40-7	70Hz			
Power Woke-in			60	sec			
THDI			<	3%			
Power Factor			≥ 0	).99			
Bypass Voltage R	Range		±2	20%			
Bypass Frequenc	cy Range		50/60	)±10%			
Bypass synchron	ization tracking range		50/6	0±4%			
Output							
Power Factor			1	.0			
Nominal Output	Voltage		380V/220VAC, 400V/23	30VAC, 415V/240VAC			
Output Frequenc	cy Range		50/60:	±0.5HZ			
requency Tracki	ing Range		50/60	)±10%			
Overload Ability			10 minute	es at 125%			
Output Voltage 1	THD		≤ 1% (Linear load), ≤	≤ 2% (Non-linear load)			
Output Voltage 1	Tolerance		≤ :	±1%			
/oltage Recoveri	ing Time		≤ 2	20ms			
ransfer From Ma	ains to Battery Supply	0ms					
Efficiency		Up to 97.1% in Double conversion mode from 40 to 100 %, Up to 99% in ECO mode, Up to 99.5% in iECO m					
Battery							
Battery Rated Vo	ltage			0V DC			
Battery Voltage F	···age		± 24				
,			± 24				
				~±320V DC			
/RLA Battery	Range		± 168V DC	~±320V DC			
/RLA Battery Access to Lithiun	Range		± 168V DC	~±320V DC ge 32-44)			
/RLA Battery Access to Lithiun Environmental	Range n-ion Battery		± 168V DC- 40 (Rang Star	~±320V DC ge 32-44)			
/RLA Battery Access to Lithiun Environmental Operating Tempo	Range m-ion Battery erature		± 168V DC- 40 (Rang Star -5°C	~±320V DC ge 32-44) ndard			
/RLA Battery Access to Lithiun Environmental Operating Tempo Operating Relativ	Range m-ion Battery erature		± 168V DC- 40 (Rang Star  -5°C ≤ 95%, non-	~±320V DC ge 32-44) ndard ~ 40°C			
VRLA Battery Access to Lithium Environmental Operating Tempo Operating Relativ Noise	Range m-ion Battery erature		± 168V DC- 40 (Rang Star  -5°C ≤ 95%, non-	~±320V DC ge 32-44) ndard ~ 40°C condensation 70dB			
VRLA Battery Access to Lithiun Environmental Operating Tempo Operating Relativ Noise Altitude	Range m-ion Battery erature		± 168V DC- 40 (Rang Star  -5°C ≤ 95%, non- ≤ 7  5000 m, deratin	~±320V DC ge 32-44) ndard ~ 40°C condensation 70dB			
Access to Lithium Environmental Operating Tempo Operating Relativ Noise Altitude Protection Class	Range m-ion Battery erature		± 168V DC- 40 (Rang Star  -5°C ≤ 95%, non- ≤ 7  5000 m, deratin	~±320V DC ge 32-44) ndard ~ 40°C condensation 70dB g if 1000 above			
/RLA Battery Access to Lithium Environmental Operating Tempo Operating Relative Noise Altitude Protection Class Others	Range n-ion Battery erature ve Humidity		± 168V DC- 40 (Rang Star  -5°C ≤ 95%, non- ≤ 7  5000 m, deratin	~±320V DC ge 32-44) ndard ~ 40°C condensation 70dB g if 1000 above			
Access to Lithium Environmental Operating Tempo Operating Relativ Noise Altitude Protection Class Others Parallel Configur	Range n-ion Battery erature ve Humidity		± 168V DC- 40 (Rang Star  -5°C ≤ 95%, non- ≤ 5 5000 m, deratin  Up to 4 u	~±320V DC ge 32-44) ndard ~ 40°C condensation 70dB g if 1000 above			
Access to Lithium Environmental Operating Tempo Operating Relativ Noise Altitude Protection Class Others Parallel Configur	Range m-ion Battery erature ve Humidity	RS232/RS485, CAI	± 168V DC- 40 (Rang Star  -5°C ≤ 95%, non- ≤ 7  5000 m, deratin  IP  Up to 4 u  Sup	~±320V DC ge 32-44) ndard ~ 40°C condensation 70dB g if 1000 above 220	(optional)		
Access to Lithium Environmental Operating Tempo Operating Relative Noise Altitude Protection Class Others Parallel Configur EPO Communication	Range m-ion Battery erature ve Humidity	RS232/RS485, CAI	± 168V DC- 40 (Rang Star  -5°C ≤ 95%, non- ≤ 7  5000 m, deratin  IP  Up to 4 u  Sup	~±320V DC ge 32-44) ndard ~ 40°C condensation 70dB g if 1000 above 220 units (N+1) oport as standard. MODBUS, SNMP	(optional)		
Access to Lithium Environmental Operating Tempo Operating Relativ Noise Altitude Protection Class Others Parallel Configur EPO Communication Safety Compliance	Range m-ion Battery erature ve Humidity	RS232/RS485, CAI	± 168V DC- 40 (Rang Star  -5°C ≤ 95%, non- ≤ 7  5000 m, deratin  IP  Up to 4 u  Sup N, USB, Dry contact, SD Card	~±320V DC ge 32-44) ndard  ~ 40°C condensation 70dB g if 1000 above 220 inits (N+1) pport as standard. MODBUS, SNMP	(optional)		
VRLA Battery Access to Lithium Environmental Operating Tempo Operating Relativ Noise Altitude Protection Class Others Parallel Configur EPO Communication Safety Compliance EMC Compatibili	erature ve Humidity  ration		± 168V DC- 40 (Rang Star  -5°C  ≤ 95%, non- ≤ 7  5000 m, deratin  IP  Up to 4 u  Sup N, USB, Dry contact, SD Card  IEC/EN 62040-1, I	~±320V DC ge 32-44) ndard  ~ 40°C condensation 70dB g if 1000 above 220 inits (N+1) pport as standard. MODBUS, SNMP			
VRLA Battery Access to Lithium Environmental Operating Tempo Operating Relativ Noise Altitude Protection Class Others Parallel Configur EPO Communication Safety Compliant EMC Compatibili Dimension	erature ve Humidity  ration  ce ity & Performance	RS232/RS485, CAI	± 168V DC- 40 (Rang Star  -5°C ≤ 95%, non- ≤ 7  5000 m, deratin  IP  Up to 4 u  Sup N, USB, Dry contact, SD Card  IEC/EN 62040-1, I	~±320V DC ge 32-44) ndard ~ 40°C condensation 70dB gg if 1000 above 220 mits (N+1) pport as standard. MODBUS, SNMP EC/EN 60950-1 EC/EN 62040-3	(optional)		

## Systems based on 75kVA module

Model: MCM-450/75

Max. Capacity of system: 450KVA

Configuration: **6 slots**Power module model: **M75**Power module capacity: **75KVA** 

Dimension: **900\*1000\*2000**(W\*D\*H)mm, standard 19" cabinet

Model: **MCM-600/75** 

Max. Capacity of system: **600KVA** 

Configuration: **8 slots**Power module model: **M75**Power module capacity: **75KVA** 

Dimension: 1200\*1000\*2000(W\*D\*H)mm, standard 19" cabinet

Model: MCM-900/75

Max. Capacity of system: 900KVA

Configuration: **12 slots**Power module model: **M75**Power module capacity: **75KVA** 

Dimension: 1800\*1000\*2000(W\*D\*H)mm, standard 19" cabinet

Model: **MCM-1200/75** 

Max. Capacity of system: 1200KVA

Configuration: **16 slots**Power module model: **M75**Power module capacity: **75KVA** 

Dimension: 1800\*1000\*2000(W\*D\*H)mm, standard 19" cabinet

## **M75 Module Data**

Phase	Charging current	Max Charging Power	Max heat dispassion	Input PF	Input THDI	Dimension (W*D*H)mm	Weight
3/3	15A	9kW	2250W	≥ 0.99	< 3%	482/442*628*172	45kg

## **UPS SYSTEM TEHCNICAL SPECIFICATION**

Model	MCM-450/75	MCM-600/75	MCM-900/75	MCM-1200/75	
System Capacity (kVA/kW).	450 kVA/kW	600 kVA/kW	900 kVA/kW	1200 kVA/kW	
INPUT		<u> </u>		<u> </u>	
Phase	3Ph+N+PE				
Nominal Input Voltage		380V/220VAC, 400V/23	0VAC, 415V/240VAC		
nput Voltage Range		132- 276 VAC, (If 132-176	SVAC, 50% load max.)		
nput Frequency		40-7			
Power Woke-in		609	Sec		
THDI		<	3%		
Power Factor		≥ 0.			
Bypass Voltage Range		± 2	20%		
Bypass Frequency Range		50/60:	± 10%		
Bypass synchronization tracking range		50/60	± 4%		
Output					
Power Factor		1	.0		
Nominal Output Voltage		380V/220VAC, 400V/23			
Output Frequency Range			: 0.5HZ		
requency Tracking Range		50/60:			
Overload Ability		10 minute			
Output Voltage THD		≤ 1% (Linear load), ≤			
Output Voltage Tolerance			±1%		
oltage Recovering Time					
ransfer From Mains to Battery Supply	≤ 20ms				
ifficiency	Oms  Up to 97.1% in Double conversion mode from 40 to 100 %, Up to 99% in ECO mode, Up to 99.5% in iECO r				
Battery	,		, ,	, ,	
Battery Rated Voltage		± 240	DV DC		
Battery Voltage Range		± 168V DC~			
/RLA Battery		40 (Rang			
Access to Lithium-ion Battery		Stan			
invironmental					
Operating Temperature		-5°C <i>,</i>	~ 40°		
Operating Relative Humidity		≤ 95%, non-c	ondensation		
Voise		≤ 7			
Altitude		5000m, derating			
Protection Class		IP:			
Others					
Parallel Configuration		Un to 4 u	nits (N+1)		
PO	Up to 4 units (N+1)				
Communication	Support  RS232/RS485, CAN, USB, Dry contact, SD Card as standard. MODBUS, SNMP (optional)				
Safety Compliance	NOZOZ, NOTOJ, CAN	IEC/EN 62040-1, IE		(optional)	
EMC Compatibility & Performance		IEC/EN 62040-1, IE			
DimensionStandard (1*breaker)	900*1000*2000	ILC/ LIN 02040-2, II	-C/ LIN 020+0-3	1800*1000*2000	
	1200*1000*2000	1200*1000*2000	1800*1000*2000		
(W*D*H)mmOptional (4 breakers)		207	610	700	
Weight (kg)	344	387	618	700	

## MRM 36 Serie Rackmount Modular UPS



Model: MRM-12/6

Max. capacity of system : 12kVA

Configuration: 2 slots

Power module model: **M06**Power module capacity: **6kVA** 

Dimension (W\*D\*H): 482\*635\*132.5mm, standalone or embed into

standard 19" cabinet



Model: MRM-24/6

Max. capacity of system : 24kVA

Configuration: 4 slots

Power module model: **M06**Power module capacity: **6kVA** 

 $\label{eq:definition} \mbox{Dimension (W*D*H)}: \mbox{\bf 482*635*220} \mbox{mm, standalone or embed into}$ 

standard 19" cabinet



Model: MRM-36/6

System capacity: **36kVA**Configuration: **6 slots**Power module model: **M06** 

Power module capacity : **6kVA** 

Dimension (W\*D\*H): 482\*635\*310mm, standalone or embed into

standard 19" cabinet

#### **M06 Module Data**

Phase	Charging current	Max Charging Power	Max heat dispassion	Input PF	Input THDI	Dimension (W*D*H)mm	Weight
1/1	1A	620kW	300W	≥ 0.99	< 3%	208*503*83	8kg

## **UPS SYSTEM TEHCNICAL SPECIFICATION**

Model	MRM-24/6	MRM-24/6	MRM-36/6			
System Capacity (kVA)	12 kVA	24 kVA	36 kVA			
INPUT						
Phase	1Ph+N+PE	1Ph+N+PE	3Ph+N+PE			
Nominal Input Voltage	220V/230V/240V 220V/230V/240V, 380V/400					
nput Voltage Range	132V~276V/228V~478V					
nput Frequency		40-70Hz				
Power Woke-in		60sec				
THDI		< 5%				
Power Factor		≥ 0.99				
Bypass Voltage Range		± 20%				
Bypass Frequency Range		50/60 ± 10%				
Bypass synchronization tracking range		50/60 ± 4%				
Output						
Power Factor		0.9				
Nominal Output Voltage	220V/230V	//240V	220V/230V/240V, 380V/400V/415V			
Output Frequency Range		50/60 ± 0.5HZ				
requency Tracking Range		50/60 ± 10%				
Overload Ability	10 minutes at 125%					
Output Voltage THD	≤ 2% (Linear load), ≤ 4% (Non-linear load)					
Output Voltage Tolerance		≤ ±1%				
/oltage Recovering Time	≤ 20ms					
Transfer From Mains to Battery Supply		0ms				
Efficiency		≥ 94%				
Battery						
Battery Rated Voltage		± 240V DC				
Battery Voltage Range		± 168V DC~ ± 320V DC				
/RLA Battery		40 (Range 32-44)				
Access to Lithium-ion Battery		Standard				
Environmental						
Operating Temperature		-5 ~40				
Operating Relative Humidity		≤ 95%, non-condensation				
Noise		≤ 52 dB				
Altitude		5000 m, derating if 1000 abov	/e			
Protection Class		IP20/IP30				
Others						
Operation mode		Online double conversion mo	ode			
Communication	MODBUS, SNMP, Dry contact					
Safety Compliance		IEC/EN 62040-1, IEC/EN 60950-	1			
EMC Compatibility &Performance		IEC/EN 62040-2, IEC/EN 62040-	3			
nstallation	Embedde	ed in standard 19-inch cabinet/Fl	oor stand use			
Dimension (W*D*H)mm	482*635*132.5	482*635*220	482*635*310			
Weight (kg)	17	22	27			

Network Engineering is an industry leading electrical and power electronic product designer and manufacturer, with facilities in China and Spain. It takes the lead in promoting and encouraging energy sustainable products, provides complete solutions for UPS & Data Center, Electric Vehicle Charging Station, Energy Storage, paves the way for a future decarbonization of the energy and mobility sector.

We have been developing modular UPS since 2002, leading top market share in modular UPS market. With our passion and commitment for innovative design, product quality and customer care, we have launched full range modular UPS from 6kVA to 1.2MW, based on various types of UPS module 6kVA, 15kVA, 25kVA, 50kVA, 75Kva.

ISO9001, ISO14001 OHSAS 18001 certified SCU plant, CE approved UPS, IEC EN 62040-1, IEC EN 62040-2, IEC EN62040-3 full compliant, Own proprietary intellectual property right for all PowerIT® UPS and related power products.

#### Modular UPS + Lithium-ion Battery System Solution

Higher energy density, smaller footprint, longer lifespan

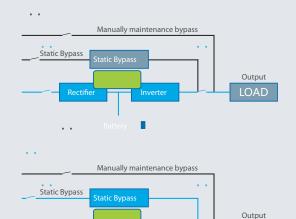
Large discharge rate, suitable for 5 15 minutes short term backup of data center

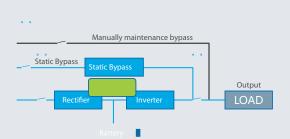
Wide temperature range, saving refrigeration investment and reducing operating costs

Flexible, customized Li-ion Battery Solution available

#### **Innovated UPS Operation Mode achieves 99.5% efficiency**

Online double conversion, ECO, and iECO mode to achieve the perfect combination of usability and efficiency to meet the unique operational goals of the user. Innovative and efficient power regulation mode brings extraordinary value to customers.





### **Online double conversion mode**

- UPS output PF=1, THDI<3%
- Efficiency up to 97,1%
- · Mains battery seamless switching
- Meet the uninterrupted power supply and power quality of the load

#### **ECO** mode

LOAD

- UPS is running in static bypass state
- Efficiency up to 99%
- Mains battery switching time is less than 4ms

#### iECO mode

- Ultra-high efficiency up to 99.5%
- Output meets IEC62040 and meet the power supply quality to load
- Mains power supply and battery power supply seamless switching
- Provide reactive power compensation and harmonic suppression to eliminate load interference to the power grid
- Battery and mains can be powered at the same time, support the slow start of the oil machine
- In addition to the backup function, the lithium battery can also use the electricity price difference between mains peak and valley to save operating costs

#### 20+ Years of Experience

With more than 20 years of R&D experience in building UPS power supplies, Network Engineering takes the industry lead in providing uninterruptible power supply protection for critical loads, covering applications from small IT rooms through to large data centers and complete industrial plant protection.

#### Part of projects reference

Cloud Data Center in Beijing	43.6MW Modular UPS
China Telecom	460+ units of UPS (30KVA-800KVA)
China Unicom	300+ units of UPS (50KVA-500KVA)
China Mobile	200+ units of UPS (100KVA-900KVA)
Semiconductor Chip Factory	5.8MW UPS
Beijing Public Security Bureau(Government)	57.6MW Modular UPS
Beidou Navigation Satellite Project (Military)	16MW Modular UPS
APEC 2014	2.9MW Modular UPS + Standalone UPS
2008 Beijing Olympic Games	3.6MW Modular UPS

For more application reference, pls visit our:

www.net-eng.com

## **Powerful Marketing & Service Network**

Network Engineering has established a powerful marketing and service network. With the HQ in China and a subsidiary in Spain, support customers and partners in more than 50 countries worldwide.

## Asset Management Iberia S.L.

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