



EDGEWORKS
Where innovation meets global connection



Mission Critical Power System



Redefined Efficiency

Uninterrupted Power Supply

Rack Mount Modular UPS

Capacity Range: 20~200kVA

Modular UPS is a hot-swappable, highly scalable online double 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/3U 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, upgrade easily

Uninterrupted Power Supply

Rack Mount Modular UPS - Hot Swappable



Technical Data

400V 3P Series IEC						208V 3P Series US Power						
Model	U-045M33H	U-060M33H	U-090M33H	U-150M33H	U-200M33H	U-020M33U	U-030M33U	U-050M33U	U-090M33U	U-120M33U	U-150M33U	
Host Capacity	45kVA	60kVA	90kVA	150kVA	200kVA	20kVA	30kVA	50kVA	90kVA	120kVA	150kVA	
Input												
Input Phase	3 Phase, 4 Wire					3 Phase, 4 Wire						
Voltage	380/400/415Vac					208/230Vac						
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, 4 Wire					3 Phase, 4 Wire						
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%			94%	94%	93.0%	
Power module												
Module capacity	15KVA	10KVA	15KVA	25KVA	25KVA	10kVA			15kVA	15kVA	15kVA	
Maximum number of modules	3	6	6	6	8	2	3	5	6	8	10	
Battery												
Battery Voltage	±192/±204/±216/±228/240/264Vdc					±96Vdc/±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 (23U)	482*916*931 (21U)	482*916*1550 (35U)	600*1100*2000 (42U)
	Module	436*590*85 mm(2U)			436*677*85(2U)		436*590*85(2U)			436*677*85(2U)		460*790*134(3U)
Weight (kg)	Host	119	175	175	224	344	42	52	85	140	160	165
	Module	15.3	15.9	15.9	18	18	16			18		32

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.

EDW PDU organized into the following four categories: Basic PDU, Metered PDU, Monitored PDU and Smart 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	Smart PDU
General data				
input current	16A/32A/63A	16A/32A/63A	16A/32A/63A	16A/32A/63A
input voltage	110~460Vac			
input phase	1phase, 2phase, 3phase			
output sockets NO.	6~42	20-bit C13 output socket, 4-bit C19 output socket with indicator	20-bit C13 output socket, 4-bit C19 output socket with indicator	20-bit C13 output socket, 4-bit C19 output socket with indicator
output sockets type	IEC, BS, NEMA, GB			
Installation method	rack-mounted / vertical-mounted			
Shell material	sheet metal			
Main functions				
monitoring	-	-	●	●
switching	-	-		●
energy metering (hot-swapped IP-2017 digital current meter)	-	●	●	●
system settings	-	-	●	●
alarm notification	-	●	●	●
breaker status monitoring	-	●	●	●
remote firmware upgrade	-	-	●	●
event and data logs	-	-	●	●
multiple network and security protocols	-	-	●	●
lightning surge protection	-	●	●	●
adjustable display direction	-	-	●	●
feature extension port	-	-	●	●
Temperature & humidity/smoke/water leakage/door contact and logical ports	-	-	●	●
power cut-off protection when overload	-	-	-	●
access 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



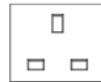
SR 107-2-D1



NF-C61-314



INDIA SOCKET



BS 1363(90°)



NEMA 5-15R



NEMA 5-20R

Power Distribution System

Rack Mount PDM (Power Distribution Module)



Edgeworks 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 Data Center.

Key Features:

- Compatible with 19" standard rack cabinet, minimum height 3U, seamless integration into rack installation.
- All in one design managing all the power distribution of UPS, cooling and IT branches.
- Built in UPS manual by-pass line for easier online maintenance.
- All-metal enclosure, safe and reliable.
- Built in power meter with Modbus protocol for energy monitoring and analysis.
- Support PUE calculation with power meters of main power input and UPS power output.
- Built in surge protection.
- Flexible customization adjusting breakers and power line path.
- Support 2N dual loop design by customization

Power Distribution System

Power Distribution Module

PDM Series



Technical Data

Model	P-063S	P-063W	P-063T	P-80T	P-100T	P-125T	Customized
Power Input							
Rated Current	63A	63A	63A	80A	100A	125A	> 250A
Input Phase	1Ph	2Ph	3Ph	3Ph	3Ph	3Ph	3Ph
Power Type	L+N+PE	L1+L2+N+PE	L1+L2+L3+N+PE	L1+L2+L3+N+PE	L1+L2+L3+N+PE	L1+L2+L3+N+PE	L1+L2+L3+N+PE
Acceptable Voltage Range	200-240V	200-240V	380-415V	380-415V	380-415V	380-415V	380-415V
Frequency Range	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz
Power Connection Path							
Surge Protection	C Level 1P+N	C Level 2P+N	C Level 3P+N	C Level 3P+N	C Level 3P+N	C Level 3P+N	C Level 3P+N
Air Conditioner Terminals	32A/1Ph *1	32A/2Ph *1	32A/3Ph *2	32A/3Ph *2	32A/3Ph *3	32A/3Ph *4	63A/3Ph *4
UPS Terminals	32A/1Ph *2 (Input/Output *1)	32A/2Ph *2 (Input/Output *1)	32A/3Ph *4 (Input/Output *2)	32A/3Ph *4 (Input/Output *2)	32A/3Ph *4 (Input/Output *2)	40A/3Ph *4 (Input/Output *2)	200A/3Ph *4 (Input/Output *2)
Manual Bypass	32A/2Ph *1	32A/3Ph *1	63A/4Ph *1	63A/4Ph *1	63A/4Ph *1	80A/4Ph *1	200A/4Ph *1
PDU Terminals	32A/1Ph *2	32A/1Ph *2	32A/1Ph *4	32A/1Ph *8	32A/1Ph *12	32A/1Ph *20	> 32A/1Ph *20
Auxiliary Terminals	20A/1Ph *1	20A/1Ph *1	20A/1Ph *1	20A/1Ph *1	20A/1Ph *1	20A/1Ph *1	> 20A/1Ph *1
DC Power Output	12VDC/100W	12VDC/100W	12VDC/35W	12VDC/35W	12VDC/35W	12VDC/35W	12VDC/35W
Power Monitoring							
Power Meters Qty	1* main input, 1* UPS output	1* main input, 1* UPS output	1* main input, 1* UPS output	1* main input, 1* UPS output	1* main input, 1* UPS output	1* main input, 1* UPS output	1* main input, 1* UPS output
Power Monitoring Protocol	Modbus-RTU	Modbus-RTU	Modbus-RTU	Modbus-RTU	Modbus-RTU	Modbus-RTU	Modbus-RTU
Power Monitoring Parameters	kWh/kVA/Current/PFN/oltage	kWh/kVA/Current/PFN/oltage	kWh/kVA/Current/PFN/oltage	kWh/kVA/Current/PFN/oltage	kWh/kVA/Current/PFN/oltage	kWh/kVA/Current/PFN/oltage	kWh/kVA/Current/PFN/oltage
Physical							
Dimension, D*W*H(mm)	750*483*133(3U)	750*483*133(3U)	750*483*266(6U)	750*483*399(9U)	750*483*399(9U)	750*483*399(9U)	Per Definition
Net Weight (kg)	20	22	35	53	53	62	Per Definition
Environment							
Storage Condition	0-65C, 0-95%RH (no condensing)	0-65C, 0-95%RH (no condensing)	0-65C, 0-95%RH (no condensing)	0-65C, 0-95%RH (no condensing)	0-65C, 0-95%RH (no condensing)	0-65C, 0-95%RH (no condensing)	0-65C, 0-95%RH (no condensing)
Operational Condition	0-50C, 0-75%RH (no condensing)	0-50C, 0-75%RH (no condensing)	0-50C, 0-75%RH (no condensing)	0-50C, 0-75%RH (no condensing)	0-50C, 0-75%RH (no condensing)	0-50C, 0-75%RH (no condensing)	0-50C, 0-75%RH (no condensing)

Notes:

- 1). If there have custom requirements, please communicate with our technical staff to confirm before placing an order.
- 2). Product specifications are subject to change without further notice.



EDGEWORKS

Battery System

Lithium-iron Battery Module | UPS Type



- ❑ Multiple monitoring and protection, optional cabinet-level fire protection system
- ❑ Accurate fault identification, intelligent fault prediction
- ❑ Rackmount compact size easy to install and integrate into data center solutions. High performance, high efficiency
- ❑ Complete power configuration flexible capacity expansion and transformation
- ❑ Multi-scenario applications in modes such as peak-shaving and valley-filling, emergency backup power, etc.

Technical Data

Model	B-025192RL	B-050192RL	B-100192RL	B-100240RL	B-050512RL	B-100512RL
Mount Type	In-Rack	In-Rack	In-Rack	In-Rack ^{*1}	In-Rack	In-Rack
Height in RU	4U	12U	16U	19U	26U	36U
Module Type	LFP	LFP	LFP	LFP	LFP	LFP
Nominal Voltage	204.8Vdc	204.8Vdc	204.8Vdc	+/-128Vdc	512Vdc (±256Vdc)	512Vdc (±256Vdc)
Max. Discharge	4C@100A	4C@200A	2C@200A	2C@200A	4C@200A	2C@200A
Cycle Life	4000 times	4000 times	4000 times	4000 times	4000 times	4000 times
Nominal Power	5.12kWh	10.24kWh	20.48kWh	25.6kWh	25.6kWh	51.2kWh
Weight	60kg	130kg	190kg	220kg	350kg	460kg
Self-discharge	<3%/month	<3%/month	<3%/month	<3%/month	<3%/month	<3%/month
Communication	CAN, RS485	CAN, RS485	CAN, RS485	CAN, RS485	CAN, RS485	CAN, RS485
Environment	0-45C, <90% RH	0-45C, <90% RH	0-45C, <90% RH	0-45C, <90% RH	0-45C, <90% RH	0-45C, <90% RH

Notes:

- *1* needs 800mm purposely designed cabinet for the battery installation.
- Customizable according to customer requirements.

**We believe the world is
being totally connected.**

**The connections are
creating digital intelligence
and a better future.**

**We design and deliver
data center
infrastructure products
to build foundation of
digital future.**

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EDGEWORKS

Visit us on web
<https://www.edgeworks.global>

Email us
info@edgeworks.global

