iDC FlexiPower Online IoT Rack 1-20kW

A high performance IoT enabled double conversion online rackmounted UPS

iDC FlexiPower Online IoT UPS is a high performance, true online conversion online UPS capable of supporting loads from 1 to 20kW. It comes with IoT compatibility automatically monitoring power quality and battery status, with easy access to your UPS status, offering protection to your crucial equipment.

IoT Compatibility

Easy to access your UPS and battery status and events on a real time basis through mobile APP

High Efficiency

A complete green solution with energy saving

Unit Power Factor

Enjoy more power in the same space with a power factor of 1

Flexibility

Adjustable charging current and flexible battery configuration

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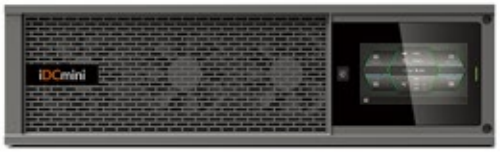
Key Features

- True double conversion design online technology
- Power Capacity: 1-20kW
- Real output factor 1.0 offering more power in same space
- Green and high efficiency with energy and space saving
- Optimize charging method to maximize battery lifetime
- Adjustable charging current and flexible battery configuration
- Highly reliable with built-in OVCD protection, fan lock detection, over temperature detection and overload warning
- Programmable outlet group to increase back up time for the most critical equipment
- Hot swappable battery for UPS models
- Low audible noise at typical load
- LCD support up to 10 languages for easy installation and service
- Embedded Ethernet port solution & optional WLAN module for IoT connection
- Mobile APP, both Android and iOS, for monitoring
- Upgrade network card compliance with IEC standard cybersecurity
- Special enhancement features (20kW unit): 3 phase mode to meet utility and load wiring
- Special enhancement features (20kW unit): Alternative option with dual source input is available for utility and bypass

iDC FlexiPower Online IoT 1-3kW

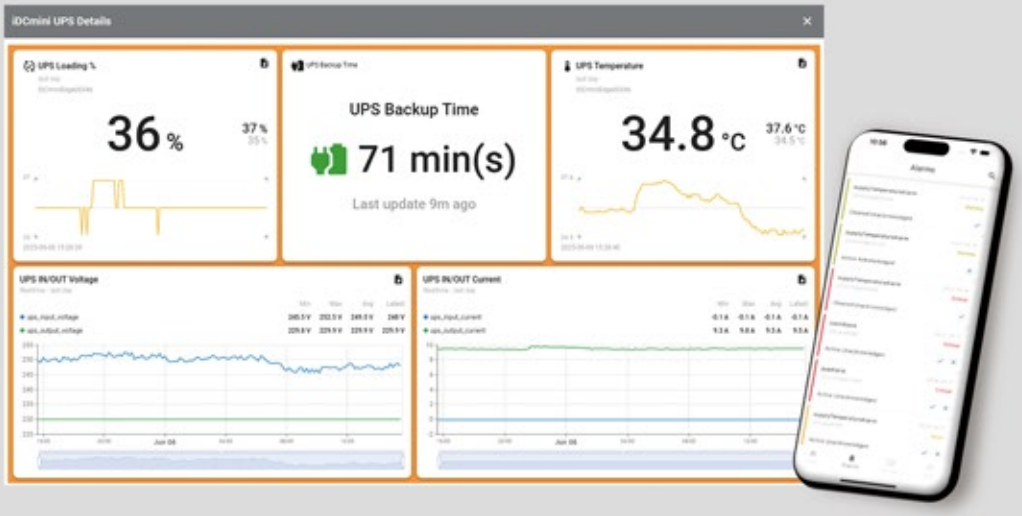
iDC FlexiPower Online IoT 6-10kW



iDC FlexiPower Online IoT 20kW

iDCmini ALLE

One Pane – Pocket NOC, your next-gen DCIM solution platform



- Simplifies UPS management and boosts operational visibility within seconds
- Accessible anywhere with you
- Instant alerts & notifications (email, SMS, Microsoft Teams)
- Data-driven insights to optimize power use and reduce energy waste

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Technical Specification

Model	FP-OR-IOT-1K	FP-OR-IOT-2K	FP-OR-IOT-3K
Power Rating	1000VA/1000W	2000VA/2000W	3000VA/3000W
Efficiency			
Double conversion mode	89%	93%	93%
ECO mode	96%	97%	97%
Input Performance			
Voltage range	160-300V 100% load, 110-160V derating to 50% load linearly	160-300V 100% load, 110-160V derating to 50% load linearly	160-300V 100% load, 110-160V derating to 50% load linearly
Rated frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Frequency range	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)
PF	>0.99	>0.99	>0.99
THDI	<5%	<5%	<5%
Input Connection	IEC C14	IEC C20	IEC C20
Output Performance			
Rated voltage	200/208/220/230/240VAC (derating 10% at 208V, derating 20% at 200V)	200/208/220/230/240VAC (derating 10% at 208V, derating 20% at 200V)	200/208/220/230/240VAC (derating 10% at 208V, derating 20% at 200V)
Rated frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Maximum PF	1	1	1
Voltage accuracy	±1%	±1%	±1%
THDv	<1% linear load <5% non linear load	<1% linear load <5% non linear load	<1% linear load <5% non linear load
Transfer time	0ms (4ms @ line <->bypass; 10ms @ ECO<->Inverter)	0ms (4ms @ line <->bypass; 10ms @ ECO<->Inverter)	0ms (4ms @ line <-> bypass; 10ms @ ECO<->Inverter)
Crest Ratio	max 3:1	max 3:1	max 3:1
Overload (line mode)	100%<load≤105% continuous 105%< load ≤125% for 3mins 125<load≤150% for 30s >150% for 500ms	100%<load≤105% continuous 105%< load ≤125% for 3mins 125<load≤150% for 30s >150% for 500ms	100%<load≤105% continuous 105%< load ≤125% for 3mins 125<load≤150% for 30s >150% for 500ms
Output Connection			
Wiring/socket	1 main outlet group (with 4 x IEC C13) and 1 programmable outlet group (with 4 x IEC C13)#	1 main outlet group (with 4 x IEC C13) and 1 programmable outlet group (with 4 x IEC C13)#	1 main outlet group (with 1 x IEC C19 + 4 x IEC C13) and 1 programmable outlet group (with 4 x IEC C13)#
Load segment control	Yes	Yes	Yes
Battery			
Type	VRLA	VRLA	VRLA
Voltage	36VDC	72VDC	72VDC
Capacity (AH)	3 x 12V/9Ah	6 x 12V/9Ah	6 x 12V/9Ah
Backup time Typical value by default battery capacity, PF=1	3.0min 100% load 12.2min 50% load	3.3min 100% load 12.9min 50% load	2.5min 100% load 9.3min 50% load
Maximum connect external battery module quantity	4	4	4
Charger			
Charging current	1.5A	1.5A	1.5A
Recharging time	3h to 90%	3h to 90%	3h to 90%
Other Working Mode			
CVCF	Yes (derating to 60% load)	Yes (derating to 60% load)	Yes (derating to 60% load)
Parallel	No	No	No

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Technical Specification

Model	FP-OR-IOT-1K	FP-OR-IOT-2K	FP-OR-IOT-3K
HMI (Human Machine Interface)			
Display	Dot matrix LCD, rotatable manually	Dot matrix LCD, rotatable manually	Dot matrix LCD, rotatable manually
Language	10 Languages	10 Languages	10 Languages
USB	USB 2.0 with HID	USB 2.0 with HID	USB 2.0 with HID
RS232	Yes (DB9)	Yes (DB9)	Yes (DB9)
Dry in/out	1 programmable dry in; 1 programmable dry out	1 programmable dry in; 1 programmable dry out	1 programmable dry in; 1 programmable dry out
EPO	Yes	Yes	Yes
Intelligent slot	Yes (for long card)	Yes (for long card)	Yes (for long card)
Network card	Optional, NMC long card	Optional, NMC long card	Optional, NMC long card
Modbus card	Optional, CMC/Modbus long card	Optional, CMC/Modbus long card	Optional, CMC/Modbus long card
Dry contactor card	Optional, AS400 long card	Optional, AS400 long card	Optional, AS400 long card
WLAN module	Optional, HDMI type	Optional, HDMI type	Optional, HDMI type
Ethernet port for IOT	RJ45	RJ45	RJ45
DCIM connection	Ready	Ready	Ready
iDC FlexiPower Online IoT Rack EBM			
Model	FP-OR-IOT-E36V	FP-OR-IOT-E72V	FP-OR-IOT-E72V
Voltage	36V	72V	72V
Capacity (Ah)	3*12V/9Ah	6*12V/9Ah	2*6*12V/9Ah
Physical Performance			
Dimension (W*D*H) mm	438*445*86.5 (UPS, 2U) 438*445*86.5 (EBM, 2U)	438*600*86.5 (UPS, 2U) 438*600*86.5 (EBM, 2U)	438*600*86.5 (UPS, 2U) 438*600*86.5 (EBM, 2U)
IP protection level	IP20	IP20	IP20
Environment			
Operating temperature	0-40°C	0-40°C	0-40°C
Relative Humidity	0-95%	0-95%	0-95%
Operating Altitude	0~3000m (the load derating 1% every up 100m @1000~3000m)	0~3000m (the load derating 1% every up 100m @1000~3000m)	0~3000m (the load derating 1% every up 100m @1000~3000m)
Acoustic Noise	<45dB @ typical load with battery fully charged	<50dB @ typical load with battery fully charged	<50dB @ typical load with battery fully charged
Audible Alarm & Visual Indicators	Yes	Yes	Yes
Certification	CE, IEC/EN 62040	CE, IEC/EN 62040	CE, IEC/EN 62040
EMI			
Conduction/Radiation	C2	C2	C2
EMS			
ESD	IEC/EN 61000-4-2	IEC/EN 61000-4-2	IEC/EN 61000-4-2
RS	IEC/EN 61000-4-3	IEC/EN 61000-4-3	IEC/EN 61000-4-3
EFT	IEC/EN 61000-4-4	IEC/EN 61000-4-4	IEC/EN 61000-4-4
Surge	IEC/EN 61000-4-5	IEC/EN 61000-4-5	IEC/EN 61000-4-5
Accessory			
Maintenance bypass switch	N/A	N/A	N/A
Input power cable	Yes	Yes	Yes
Output power cable	Yes, 1*10A	Yes, 1*10A	Yes, 1*10A
EBM cable	Yes (in EBM)	Yes (in EBM)	Yes (in EBM)
USB cable	Yes	Yes	Yes
RS232 cable	Optional	Optional	Optional
Rail kit	Optional	Optional	Optional
Tower feet	Yes	Yes	Yes
Rack mount kit	Yes	Yes	Yes
Manual	Yes	Yes	Yes

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Technical Specification

Model	FP-OR-IOT-6K	FP-OR-IOT-10K	FP-OR-IOT-20K
Power Rating	6000VA/6000W	10000VA/10000W	20000VA/20000W
Efficiency			
Double conversion mode	95%	95%	96%
ECO mode	98%	98%	98.8%
Input Performance			
Voltage range	160-275V 100% load, 110-160V derating to 50% load linearly	160-275V 100% load, 110-160V derating to 50% load linearly	273-520V 100% load, 173-273V derating to 50% load linearly
Rated frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Frequency range	0Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)
PF	>0.995	>0.995	>0.995
THDI	<3% linear load, <5% non linear load	<3% linear load, <5% non linear load	<3% linear load, <5% non linear load
Input Connection	L/N/PE hardware terminal connection	L/N/PE hardware terminal connection	L1/L2/L3/N/PE hardware terminal connection (Optional) Dual input for line and bypass
Output Performance			
Rated voltage	220/230/240V	220/230/240V	380/400/415V
Rated frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Maximum PF	1	1	1
Voltage accuracy	±1%	±1%	±1%
THDv	<1% linear load <5% non linear load	<1% linear load <5% non linear load	<1% linear load <5% non linear load
Transfer time	0ms (10ms @ ECO->Inverter)	0ms (10ms @ ECO->Inverter)	0ms (2ms @ ECO->Inverter)
Crest Ratio	max 3:1	max 3:1	max 3:1
Overload (line mode)	100%<load≤105% continuous 105%< load ≤125% for 10 mins 125<load≤150% for 30s >150% for 500ms	100%<load≤105% continuous 105%< load ≤125% for 10mins 125<load≤150% for 30s >150% for 500ms	100%<load≤105% continuous 105%< load ≤125% for 10mins 125<load≤150% for 1min >150% for 500ms
Output Connection			
Wiring/socket	L/N/PE hardware terminal connection	L/N/PE hardware terminal connection	L1/L2/L3/N/PE hardware terminal connection
Load segment control	Optional (need MBP model)	Optional (need MBP model)	Optional (need MBP model)
Battery			
Type	VRLA	VRLA	VRLA
Voltage	240VDC	240VDC	480VDC
Capacity (AH)	20*12V/9Ah	20*12V/9Ah	2*20*12V/9Ah
Backup time Typical value by default battery capacity, PF=1	3.6min 100% load 9.6min 50% load	2.1min 100% load 8.0min 50% load	1.8min 100% load 4.7min 50% load
Maximum connect external battery module quantity	6	6	6
Charger			
Charging current	4A (0-12A adjustable)	4A (0-12A adjustable)	2A (0-13A adjustable)
Recharging time	3h to 90%	3h to 90%	3h to 90%
Other Working Mode			
CVCF	Yes (derating to 60% load)	Yes (derating to 60% load)	Yes (derating to 60% load)
Parallel	Optional (up to 3)	Optional (up to 3)	Optional (up to 3)

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Technical Specification

Model	FP-OR-IOT-6K	FP-OR-IOT-10K	FP-OR-IOT-20K
HMI (Human Machine Interface)			
Display	Dot matrix LCD, rotatable manually	Dot matrix LCD, rotatable manually	Colour touch LCD
Language	10 Languages	10 Languages	10 Languages
USB	USB 2.0 with HID	USB 2.0 with HID	USB 2.0 with HID
RS232	Yes (DB9)	Yes (DB9)	Yes (DB9)
Dry in/out	1 programmable dry in; 1 programmable dry out	1 programmable dry in; 1 programmable dry out	1 programmable dry in; 1 programmable dry out
EPO	Yes	Yes	Yes
Intelligent slot	Yes (for long card)	Yes (for long card)	Yes (for long card)
Network card	Optional, NMC long card	Optional, NMC long card	Optional, NMC long card
Modbus card	Optional, CMC/Modbus long card	Optional, CMC/Modbus long card	Optional, CMC/Modbus long card
Dry contactor card	Optional, AS400 long card	Optional, AS400 long card	Optional, AS400 long card
WLAN module	Optional, HDMI type	Optional, HDMI type	Optional, HDMI type
Ethernet port for IOT	RJ45	RJ45	RJ45
DCIM connection	Ready	Ready	Ready
iDC FlexiPower Online IoT Rack EBM			
Model	FP-OR-IOT-E240V	FP-OR-IOT-E240V	FP-OR-IOT-E240V
Voltage	240V	240V	480V
Capacity (Ah)	20*12V/9Ah	20*12V/9Ah	2*20*12V/9Ah
Physical Performance			
Dimension (W*D*H) mm	5U height including 438*573*86.2 (Power module, 2U) 438*593*129 (EBM, 3U)	5U height including 438*573*86.2 (Power module, 2U) 438*593*129 (Battery, 3U)	9U height including 438*589*129 (Power module, 3U) 438*593*129 x 2 (EBM, 6U)
IP protection level	IP20	IP20	IP20
Environment			
Operating temperature	0-50°C (power derating to 50% @40-50°C)	0-50°C (power derating to 50% @40-50°C)	0-50°C (power derating to 50% @40-50°C)
Relative Humidity	0-95%	0-95%	0-95%
Operating Altitude	0~3000m (the load derating 1% every up 100m @1000~3000m)	0~3000m (the load derating 1% every up 100m @1000~3000m)	0~4000m (the load derating 1% every up 100m @1000~4000m)
Acoustic Noise	<50dB @ typical load with battery fully charged	<55dB @ typical load with battery fully charged	<55dB @ typical load with battery fully charged
Audible Alarm & Visual Indicators	Yes	Yes,	Yes,
Certification	CE, IEC/EN 62040	CE, IEC/EN 62040	CE, IEC/EN 62040
EMI			
Conduction/Radiation	C3	C3	C3
EMS			
ESD	IEC/EN 61000-4-2	IEC/EN 61000-4-2	IEC/EN 61000-4-2
RS	IEC/EN 61000-4-3	IEC/EN 61000-4-3	IEC/EN 61000-4-3
EFT	IEC/EN 61000-4-4	IEC/EN 61000-4-4	IEC/EN 61000-4-4
Surge	IEC/EN 61000-4-5	IEC/EN 61000-4-5	IEC/EN 61000-4-5
Accessory			
Maintenance bypass switch	Optional (build in 1 main outlet group with 1 x IEC C19 + 2 x IEC C13 and 1 programmable outlet group with 1 x IEC C19 + 2 x IEC C13)	Optional (build in 1 main outlet group with 1 x IEC C19 + 2 x IEC C13 and 1 programmable outlet group with 1 x IEC C19 + 2 x IEC C13)	Optional (need MBP model)
Input power cable	N/A	N/A	N/A
Output power cable	N/A	N/A	N/A
EBM cable	Yes (in EBM)	Yes (in EBM)	Yes (in EBM)
USB cable	Yes	Yes	Yes
RS232 cable	Optional	Optional	Optional
Rail kit	Optional	Optional	Optional
Tower feet	Yes	Yes	Yes
Rack mount kit	Yes	Yes	Yes
Manual	Yes	Yes	Yes

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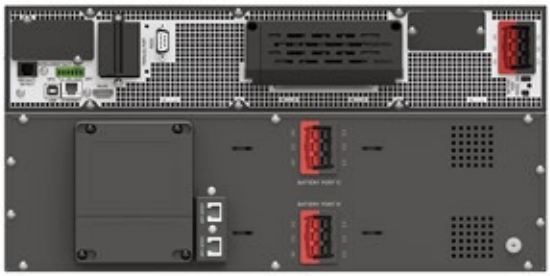
Rear Panel Photo

FP-OR-IOT-1K

FP-OR-IOT-2K

FP-OR-IOT-3K



FP-OR-IOT-6K/10K

FP-OR-IOT-6K/10K Maintenance Bypass

FP-OR-IOT-20K

FP-OR-IOT-20K Maintenance Bypass

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