



# ChargeUPS Unity IOT RT 6K/10K

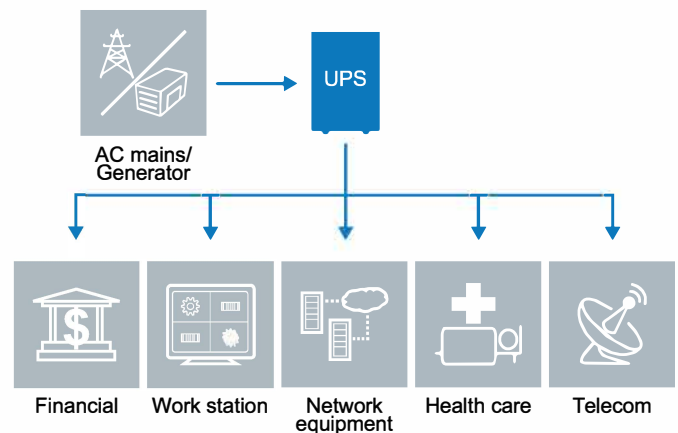


## Key features

- True double-conversion design with high adaptability to harsh mains conditions
- Real PF 1 can provide more power in same space
- High efficiency results in energy saving
- Adjustable charging current and flexible battery configuration
- Optimized charging method to expand battery life time.
- 10-20K 3-3 model can be configure as 3-1 or 1-1 model to meet utility and load wiring
- 10-20K 3-3 model can be configure as single source input or dual source input for utility and bypass
- Built-in OVCD protection, fan lock detection, over temperature detection, overload warning to enhance the product reliability

- Programmable outlet group will extend back up time for most critical equipment (6-20K need PDU model)
- Automatic detect additional EBM quantity will simplify EBM installation for IT users
- Compact size requiring small installation space
- Hot swappable battery will save customer service cost (For 1-3K standard UPS model)
- Low audible noise at typical load
- Dot matrix LCD support up to 10 languages for easy installation and service. 10-20K 3-3 model support colorful touchable LCD display with gravity sensor
- Embedded Ethernet port solution provide safe network connection to Cloud which will meet the increasing IoT trend
- WLAN module for IoT connection
- Mobile APP for monitoring, configuration. Support Android/iOS
- USB HID enable monitoring on UPS without software installation
- Dry contactor for industrial condition
- Upgraded network card compliance with IEC standard cybersecurity

## Typical application



## Product specification ( Torch 6/10K RT IoT )

Model name		Torch-6K-RT-IoT	Torch-10K-RT-IoT
Power rating	VA/Watt	6000VA/6000W	10000VA/10000W
Efficiency	Double conversion mode	95%	95%
	ECO mode	98%	98%
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
	Rated frequency	50Hz/60Hz	50Hz/60Hz
	Frequency range	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)
	PF	>0.995	>0.995
	THDI	<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
Output performance	Rated voltage	220/230/240V	220/230/240V
	Rated frequency	50Hz/60Hz	50Hz/60Hz
	Maximum PF	1	1
	Voltage accuracy	±1%	±1%
	THDv	<1% linear load, <5% non linear load	<1% linear load, <5% non linear load
	Transfer time	0ms(10ms @ ECO->Inverter)	0ms(10ms @ ECO->Inverter)
	Crest Ratio	max 3:1	max 3:1
	Overload(line mode)	105%< load ≤125% for 10 minutes	105%< load ≤125% for 10 minutes
Output connection	Wiring/socket	L/N/PE hardware terminal connection	L/N/PE hardware terminal connection
	Load segment control	Optional (need MBP model)	Optional (need MBP model)
Battery	Voltage	192VDC(192~240VDC adjustable)	192VDC(192~240VDC adjustable)
	Capacity(AH)	20*12V/7Ah, 16~20pcs adjustable (EBM)	20*12V/9Ah, 16~20pcs adjustable (EBM)
	Backup time	"5.4min 100% load 13.5min 50% load"	"3.7min 100% load 9.1min 50% load"
Maximum EBM quantity		6	6
Charger	Charging current	1.4A(0-4A adjustable)	2A(0-4A adjustable)
	Recharging time	3h to 90%	3h to 90%
Parallel		Optional (up to 3)	Optional (up to 3)
HMI(human-machine interface)	Display	Dot matrix LCD, rotatable manually	Dot matrix LCD, rotatable manually
	Language	10 Languages	10 Languages
	USB	USB 2.0 with HID	USB 2.0 with HID
	RS232	Yes(DB9)	Yes(DB9)
	Dry in/out	1 programmable dry in;1 programmable dry out	1 programmable dry in;1 programmable dry out
	EPO	yes	yes
	Intelligent slot	yes(for long card)	yes(for long card)
	Network card	Optional, NMC long card	Optional, NMC long card
	Modbus card	Optional,CMC/Modbus Long Card	Optional,CMC/Modbus Long Card
	Dry contactor card	Optional,AS400 Long Card	Optional,AS400 Long Card
	WLAN module	Optional,HDMI type	Optional,HDMI type
	Ethernet port for IOT	RJ45	RJ45
	Monitor software	Winpower	Winpower
Physical performance	Dimension(W*D*H)MM	5U height including 438*573*86.2 (power module, 2U) 438*593*129 (Battery, 3U)	5U height including 438*573*86.2 (power module, 2U) 438*593*129 (Battery, 3U)
	IP protection level	IP20	IP20
Environment	Operating temperature	0-50°C	0-50°C
	Relative Humidity	0-95%	0-95%
	Operating Altitude	0~3000m	0~3000m
	Acoustic Noise	<50dB	<55dB
Certification		CE,IEC/EN 62040	CE,IEC/EN 62040
EMI	Conduction/Radiation	C3	C3
EMS	ESD	IEC/EN 61000-4-2	IEC/EN 61000-4-2
	RS	IEC/EN 61000-4-3	IEC/EN 61000-4-3
	EFT	IEC/EN 61000-4-4	IEC/EN 61000-4-4
	Surge	IEC/EN 61000-4-5	IEC/EN 61000-4-5
MBS w/ PDU Accessories	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)

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**Myrna Borja**  
Product Manager - ChargeUPS  
m.borja@mec.ph  
0917 7056 080 - 0917 172 3220  
www.mec.ph/chargeups

