



Product specification

Model name		Torch-1K-RT-IoT	Torch-2K-RT-IoT	Torch-3K-RT-IoT
Power rating	VA/Watt	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	200/208/220/230/240 VAC(derating 10% at 208V, derating 20% at 200V	200/208/220/230/240 VAC(derating 10% at 208V, derating 20% at 200V	200/208/220/230/240 VAC(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%
	Voltage waveform	Pure sine wave	Pure sine wave	Pure sine wave
	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
Output connection	Overload(line mode)	105%< load ≤125% for 3 minutes	105%< load ≤125% for 3 minutes	105%< load ≤125% for 3 minutes
	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)
Battery	Load segment control	Yes	Yes	Yes
	Voltage	36V/24VDC	72V/48VDC	72VDC
	Capacity(AH)	3 x 12V/7Ah	6 x 12V/7Ah	6 x 12V/9Ah
Backup time		"4.2min 100% load 11.8min 50% load"	"4.4min 100% load 12.5min 50% load"	"3.7min 100% load 10.1min 50% load"
Maximum EBM quantity		4	4	4
Charger	Charging current	1.5A	1.5A	1.5A
	Recharging time	3h to 90%	3h to 90%	3h to 90%
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 programble dry in; 1 programble dry out	1 programble dry in; 1 programble dry out	1 programble dry in; 1 programble 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
	Monitor software	Winpower	Winpower	Winpower
Physical performance	Dimension(W*D*H)MM	438*445*86.5(2U)	438*600*86.5(2U)	438*600*86.5(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	0~3000m	0~3000m
	Acoustic Noise	<45dB	<50dB	<50dB
Certification		CE,IEC/EN 62040	CE,IEC/EN 62040	CE,IEC/EN 62040
	Energy star	Yes	Yes	Yes
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