

MODEL	MXT1K0MM	MXT1K0MM-KS	MXT2K0MM	MXT2K0MM-KS	MXT3K0MM	MXT3K0MM-KS
Power	1000 VA / 1000 W		2000 VA / 2000 W		3000 VA / 3000 W	
MAIN INPUT						
Grid system	1 PH + N + PE					
Rated voltage / Frequency	200/208/220/230/240 VAC (derating 10% at 208 V, derating 20% at 200 V), 50/60 Hz					
Voltage range	160-300 V 100% load, 110-160 V derating to 50% load linearly					
Frequency range	40 Hz - 70 Hz (45 Hz - 55 Hz, 54 Hz - 66 Hz @ load > 60%)					
Power factor	>0,99					
Current THDi	<5%					
OUTPUT						
Rated voltage / Frequency	200/208/220/230/240 VAC (derating 10% at 208 V, derating 20% at 200 V), 50/60 Hz					
Power Factor	1					
Wave form	Pure sine wave					
Voltage THDv	<1% (linear load); <5% (non-linear load)					
Voltage accuracy	±1%					
Transient recovery	Compliant to EN62040-3 VFI-SS-313 Standard					
Inverter Overload	100% < load ≤ 105%, continuous 105% < load ≤ 125%, 5 minute 125 < load ≤ 150%, 30 seconds > 150%, 500 ms					
Bypass Overload	100% < load ≤ 105%, continuous 105% < load ≤ 125%, 5 minute 125 < load ≤ 150%, 30 seconds > 150%, 500 ms					
Frequency regulation (Battery mode)	50/60 Hz ±0.1%					
Crest factor	3:1					
BATTERIES						
Battery type	Pb					
Battery capacity	12 V / 7 Ah	Selectable	12 V / 7 Ah	Selectable	12 V / 9 Ah	Selectable
Number of batteries in series	3		6		6	
Battery rate voltage	36 VDC		72 VDC		72 VDC	
Backup time*	7,5 min full load 10 min typical load	Depending on external batteries capacity	8 min full load 10,5 min typical load	Depending on external batteries capacity	6 min full load 9 min typical load	Depending on external batteries capacity
BATTERY CHARGER						
Charging current	1.5 A	Adjustable 2 ~ 8 A	1.5 A	Adjustable 2 ~ 8 A	1.5 A	Adjustable 2 ~ 8 A
Charging time	3 h to recover 90% capacity	Depending on external batteries capacity	3 h to recover 90% capacity	Depending on external batteries capacity	3 h to recover 90% capacity	Depending on external batteries capacity
SYSTEM						
Efficiency	Normal operation: 91% Eco Mode operation: 96% Battery operation: 86.5%		Normal operation: 94% Eco Mode operation: 97% Battery operation: 89%			
Display	LCD					
Protection degree	IP20					
Interface	Standard equipment: USB, RS232, RPO, Intelligent slot Optional: SNMP, dry contacts, parallel kit, Modbus					
ENVIRONMENT						
Operating temperature	0 ~ 40°C					
Storage temperature	0°C ~ 40°C (with battery, suggest to storage the battery below 25°C) -25°C ~ 55°C (without battery)					
Relative humidity	0 ~ 95% (no condensing)					
Noise (dBA at 1 meter far)	<45 dB		<50 dB			
Altitude	0 ~ 3000 m; load derated 1% per 100m, from 1000 ~ 3000m					
MECHANICAL DATA						
Dimensions W*D*H (mm)	145*404*220		192*428*318			
Weight (Kg)	12,8	6,4	26,0	11,0	26,4	11,4
Color	Black					

Note: technical specifications and data could be changed without notification

* For OnLine UPS typical load is 70% PF 0,8, full load is 70% PF 1

MODEL	MXT6K0MM	MXT6K0MM-KS	MXT010MM	MXT010MM-KS	MXT010TM*	MXT010TM-KS*
Power	6 KVA / 6 KW		10 KVA / 10 KW		10 KVA / 10 KW	
MAIN INPUT						
Grid system	1 PH + N + PE				3 PH + N + PE	
Rated voltage / Frequency	220/230/240 VAC, 50/60 Hz					
Voltage range	160-275 V 100% load, 110-160 V derating to 50% load linearly					
Rated current**	35 A	45 A	54 A	65 A	54 A (1-1) L1 48 A - L2/L3 18 A (3-1)	61 A (1-1) L1 51 A - L2/L3 21 A (3-1)
Frequency range	≤60% rated load: 40-70 Hz Rated load: 45-55 Hz (50 Hz system) / 54-66 Hz (60 Hz system)					
Power factor	>0,99				>0,95	
Current THDi	<3% Linear load <5% non linear load				<30% at 3 phase input <5% at 1 phase input	
OUTPUT						
Rated voltage / Frequency	220/230/240 VAC, 50/60 Hz					
Power Factor	1					
Wave form	Pure sine wave					
Voltage THDv	<1% (linear load); <5% (non-linear load)					
Voltage accuracy	±1%					
Transient recovery	Compliant to EN62040-3 VFI-SS-111 Standard					
Inverter overload	100% < load ≤ 105%, continuous 105% < load ≤ 125%, 10 minute 125 < load ≤ 150%, 30 seconds > 150%, 500 ms					
Bypass overload	100% < load ≤ 105%, continuous 105% < load ≤ 125%, 10 minute 125 < load ≤ 150%, 30 seconds > 150%, 500 ms					
Frequency regulation (Battery mode)	50/60 Hz ±0.1%					
Crest factor	3:1					
BATTERIES						
Battery type	Pb					
Battery capacity	12 V / 7 Ah	Selectable	12 V / 9 Ah	Selectable	12 V / 9 Ah	Selectable
Number of batteries in series	20***					
Battery rate voltage	240 VDC					
Backup time (20 Battery)****	9 min full load 13 min typical load	Depending on external batteries capacity	7 min full load 9 min typical load	Depending on external batteries capacity	7 min full load 9 min typical load	Depending on external batteries capacity
BATTERY CHARGER						
Charging current	Range: 1~4 A Default: 1,4 A	Range: 2~12 A Default: 4 A	Range: 1~4 A Default: 2 A	Range: 2~12 A Default: 4 A	Range: 1~4 A Default: 2 A	Range: 2~12 A Default: 4 A
Charging time (2.1 A recharging current)	3 h to recover 90% capacity	Depending on external batteries capacity	3 h to recover 90% capacity	Depending on external batteries capacity	3 h to recover 90% capacity	Depending on external batteries capacity
SYSTEM						
Efficiency	Normal operation: 94.9% Eco Mode operation: 98.6% Battery operation: 92.9%		Normal operation: 94.6% Eco Mode operation: 98.7% Battery operation: 91.8%		Normal operation: 94.6% Eco Mode operation: 98.8% Battery operation: 91.8%	
Display	LCD					
Protection degree	IP20					
Interface	Standard equipment: USB, RS232, RPO, Intelligent slot Optional: SNMP, dry contacts, parallel kit, Modbus					
ENVIRONMENT						
Operating temperature	0°C ~ 50°C (Derating 50% above 40°C)					
Storage temperature	-15°C ~ 40°C (with battery, suggest to storage the battery below 25°C) -25°C ~ 55°C (without battery)					
Relative humidity	0 ~ 95% (no condensing)					
Noise (dBA at 1 meter far)	<50 dB		<55 dB			
Altitude	0 ~ 3000 m; load derated 1% per 100m, from 1000 ~ 3000m					
MECHANICAL DATA						
Dimensions W*D*H (mm)	225*416*589	225*416*353.2	225*416*589	225*416*353.2	225*416*589	
Weight (Kg)	57.9 (20 batteries)	13.5	68.2 (20 batteries)	15.5	68.7 (20 batteries)	22.7
Color	Black					

Note: technical specifications and data could be changed without notification

* The Matrix 10k 3:1 model can also operate in 1:1 mode

**200 VAC input voltage / with Nominal Power

*** It's also possible to set 16 batteries in series at the factory, but the standard GTEC cabinet is not available for this configuration

**** For OnLine UPS typical load is 70% PF 0,8, full load is 70% PF 1

MODEL	VDC	VOLTAGE (V) and CAPACITY (Ah)	NUMBER OF BATTERIES	TOTAL TIME IN MINUTES		DIMENSIONS W*D*H (mm)	MASS (Kg)
				TYPICAL*	FULL LOAD*		
BATTERY CABINET FOR MATRIX 1K							
MXTBP1K	36	Empty	Empty	-	-	145*404*220	4,2
MXTBP1K-037	36	12 V / 7 Ah	3	27	20	145*404*220	10,8
MXTBP1K-039	36	12 V / 9 Ah	3	29	23	145*404*220	11,7
MXTBP1K-067	36	12 V / 7 Ah	6	49	36	145*404*220	17,4
MXTBP1K-069	36	12 V / 9 Ah	6	52	39	145*404*220	19,2
BATTERY CABINET FOR MATRIX 2K							
MXTBP2-3K	72	Empty	Empty	-	-	192*428*318	8,7
MXTBP2-3K-067	72	12 V / 7 Ah	6	28	20	192*428*318	21,9
MXTBP2-3K-069	72	12 V / 9 Ah	6	31	24	192*428*318	23,7
MXTBP2-3K-127	72	12 V / 7 Ah	12	51	38	192*428*318	35,1
MXTBP2-3K-129	72	12 V / 9 Ah	12	54	41	192*428*318	38,7
BATTERY CABINET FOR MATRIX 3K							
MXTBP2-3K	72	Empty	Empty	-	-	192*428*318	8,7
MXTBP2-3K-067	72	12 V / 7 Ah	6	19	14	192*428*318	21,9
MXTBP2-3K-069	72	12 V / 9 Ah	6	23	17	192*428*318	23,7
MXTBP2-3K-127	72	12 V / 7 Ah	12	32	26	192*428*318	35,1
MXTBP2-3K-129	72	12 V / 9 Ah	12	37	28	192*428*318	38,7
BATTERY CABINET FOR MATRIX RT 6K							
MXTBP10K	240	Empty	Empty	-	-	416*225*589	23,6
MXTBP10K-207	240	12 V / 7 Ah	20	36	26	416*225*589	67,6
MXTBP10K-209	240	12 V / 9 Ah	20	38	30	416*225*589	73,6
MXTBP10K-407	240	12 V / 7 Ah	40	60	47	416*225*589	111,6
MXTBP10K-409	240	12 V / 9 Ah	40	70	49	416*225*589	123,6
BATTERY CABINET FOR MATRIX 10K							
MXTBP10K	240	Empty	Empty	-	-	416*225*589	23,6
MXTBP10K-207	240	12 V / 7 Ah	20	20	15	416*225*589	67,6
MXTBP10K-209	240	12 V / 9 Ah	20	24	18	416*225*589	73,6
MXTBP10K-407	240	12 V / 9 Ah	40	35	27	416*225*589	111,6
MXTBP10K-409	240	12 V / 9 Ah	40	39	29	416*225*589	123,6

Note: technical specifications and data could be changed without notification

* For OnLine UPS typical load is 70% PF 0,8, full load is 70% PF 1