



		MTU-3.5KW	MTUS-6KW	MTUS-12KW
PV (Dc Input)	Recommended max.PV input power	4000W	6000W	1200W
	Max.input voltage(Voc)	500V	500V	500V
	MPPT operating voltage range	85V-450V(@75V start up)	85V-450V(@75V start up)	85V-450V(@75V start up)
	Number of MPPT	1	1	2
	Max. number of input strings per MPPT	1	1	1
	Max. input current per MPPT	18A	27A	27/13(MAX:40A)
	Max.short-circuit current per MPPT	22A	35A	37A/17.5A
Grid (AC Input)	Max input powerr	6000W	12000W	24000W
	Max input current	50A	50A	100 A
	Rated grid voltage	110/120/127Vac (L,N)	120/240,208Vac(L1.L2.N)	120/240,208Vac(L1.L2.N)
	Rated grid frequency	50/60Hz	50/60Hz	50/60Hz
	Acceptable range	90-140Vac (For UPS); 80-140Vac (For Home Appliances)	90-140Vac (For UPS); 80-140Vac (For Home Appliances)	90-140Vac (For UPS); 80-140Vac (For Home Appliances)
Battery parameters (Bidirection)	Battery type	SLA &LiFePO ₄	SLA &LiFePO ₄	SLA &LiFePO ₄
	Battery voltage range	160-180V	160-180V	160-180V
	Rate Battery Voltage	400V	400V	400V
	Max.charge/discharge current	50A	50A	50A
	BMS communication mode	RS485	RS485	RS485
Back-up Output (AC Output)	Rated output power	3500W/3500VA	6000W/6000VA	12000W/12000VA
	Rated output current	31.8A	27.3A	54.5A
	Rated output Voltage/Frequency	110/120/127V(L.N)50/60Hz	120/240V(L1.L2,N)50/60Hz	120/240V(L1,L2,N)50/60Hz
	Parallel Capacity	Max.12 Units	Max.12 Units	Max.12 Units
	Surge power	7000VA 5S	12000VA 5s	24000VA 5s
	THDv (@ linear load)	<3%	<3%	<3%
	Switching time	10ms typical (For UPS) 20ms typical (For Home Appliances)		
Efficiency	Peak efficiency	98.00%	98.00%	98.00%
	Max. MPPT efficiency	99.90%	99.90%	99.90%
Protection	Inner Protection	√ Output short-circuit protection √ Output overvoltage protection		
	Surge protection	PV: Type III, AC: Type III		
	IP rating	IP54		
General Parameters	Operating temperature range	-10°C~ 55°C		
	Relative humidity range	5%~95%	5%~95%	5%~95%
	Max. operating altitude	>2000m derating	>2000m derating	>2000m derating
	Standby self-consumption	<10W	<10W	<20W
	Installation type	Wall mounted	Wall mounted	Wall mounted
	Cooling mode	Fan cooling	Fan cooling	Fan cooling
	Communication	RS232/RS485/Dry contact/Wi+Fi	RS232/RS485/Dry contact/Wi+Fi	RS232/RS485/Dry contact/Wi+Fi
	Display	LCD	LCD	LCD
Mechanical Specifications	Inverter dimensions (L*W*H)(mm)	444.7*346.6*120	444.7*346.6*120	710*525*125
	Net weight (kg)	12	15	31
	Shipping dimensions (L*W*H)(mm)	560*465*240	560*465*240	825*650*240
	Gross weight (kg)	14	17	33
	Warranty	3 Years		