



		MTHG-4KW	MTHG-6KW	MTHG-12KW
PV(Dc Input)	Recommended max.PV input power	4000W	6000W	12000W
	Max.input voltage(Voc)	500V	500V	500V
	MPPT operating voltage range	85V-450V (@85V 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	15A	27A	27/27A
	Max.short-circuit current per MPPT	18A	35A	35/35A
Grid(AC Input)	Max input power	5000W	11500W	16000W
	Max input current	28A	50A	90A
	Rated grid voltage	220/230/240Vac	220/230/240Vac	220/230/240Vac
	Rated grid frequency	50/60Hz	50/60Hz	50/60Hz
	Acceptable range	170-280Vac (For UPS): 90-280Vac (For Home Appliances)	170-280Vac (For UPS): 90-280Vac (For Home Appliances)	170-280Vac (For UPS): 90-280Vac (For Home Appliances)
Battery parameters (Bidirection)	Battery type	LiFePO4/Lead-acid	LiFePO4/Lead-acid	LiFePO4/Lead-acid
	Battery voltage range	20~30Vdc	40~60Vdc	40~60Vdc
	Rate Battery Voltage	24Vdc	48Vdc	48Vdc
	Max.charge/discharge current	120A/160A	120A/130A	210A/230A
	BMS communication mode	RS485	RS485	RS485
Back-up Output (AC Output)	Rated output power	4000W/4000VA	6000W/6000VA	12000W/12000VA(Twin output)
	Rated output current	18.2A	27.3A	54.5A
	Rate Battery Voltage/Frequency	220/230/240Vac 50/60Hz	220/230/240Vac 50/60Hz	220/230/240Vac 50/60Hz
	Surge power	8000VA 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	95%	98%	98%
	Max.MPPT efficiency	99%	99%	99%
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℃~55℃		
	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	630*525*125
	Net weight (kg)	9.2	12.4	28.5
	Carton dimensions (L*W*H)(mm)	560*465*240	560*465*240	745*650*240
	Gross weight (kg)	11.4	14.6	32
	Warranty Period	3 Years		