



MTH3-10KW		MTH3-12KW		MTH3-15KW
PV (Dc Input)	Recommended max.PV input power	22800W	22800W	22800W
	Max.input voltage(Voc)	1000V	1000V	1000V
	MPPT operating voltage range	200-850V(@200V start up)	200-850V(@200V start up)	200-850V(@200V start up)
	Number of MPPT	2	2	2
	Max. number of input strings per MPPT	1+2	1+2	1+2
	Max. input current per MPPT	15A+30A	15A+30A	15A+30A
	Max.short-circuit current per MPPT	19.5/40A	19.5/40A	19.5/40A
On-grid (Bidirection)	Rated input power	10000W	12000W	15000W
	Rated input current	14.5A	17.4A	21.7A
	Rated grid voltage	400V(L1,L2,L3,N,PE)50/60Hz	400V(L1,L2,L3,N,PE)50/60Hz	400V(L1,L2,L3,N,PE)50/60Hz
	THDi	<3%	<3%	<3%
	Power factor	-0.8~+0.8	-0.8~+0.8	-0.8~+0.8
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	485;CAN	485;CAN	485;CAN
Back-up Output (AC Output)	Rated output power	10000W/10000VA	12000W/12000VA	15000W/15000VA
	Rated output current	14.5A	17.4A	21.7A
	Rate output Voltage	400V(L1.L2,L3,N,PE)50/60Hz	400V(L1.L2,L3,N,PE)50/60Hz	400V(L1.L2,L3,N,PE)50/60Hz
	Surge power	11000VA	13200VA	16500VA
	THDv (@ linear load)	<3%	<3%	<3%
	Switching time	<10ms	<10ms	<10ms
Efficiency	Max.MPPT efficiency	99.90%	99.90%	99.90%
	Max. efficiency	98.00%	98.00%	98.00%
	European efficiency	97.50%	97.50%	97.50%
	Battery charging/discharging	97.00%	97.00%	97.00%
Protection	Protection	√DC switch √PV reverse connection protection √Battery reverse connection protection √Output short-circuit protection √Output overvoltage protection √Insulation impedance detection √Residual current detection √Anti-island protection		
	Surge protection	PV: Type III, AC: Type III		
	IP rating	IP65	IP65	IP65
General Parameters	Operating temperature range	-20~60°C	-20~60°C	-20~60°C
	Relative humidity range	10~90%	10~90%	10~90%
	Installation type	Wall mounted	Wall mounted	Wall mounted
	Cooling mode	Smart cooling	Smart cooling	Smart cooling
	Communication	Wi-Fi; R485; CAN; GPRS	Wi-Fi; R485; CAN; GPRS	Wi-Fi; R485; CAN; GPRS
	Display	LCD;APP	LCD;APP	LCD;APP
Mechanical Specifications	Inverter dimensions (L*W*H)(mm)	480*425*202	480*425*202	480*425*202
	Net weight (kg)	25	26	27
	Carton dimensions (L*W*H)(mm)	637*545*326	637*545*326	637*545*326
	Gross weight (kg)	29	30	31
	Warranty	5 Years Standard (10/15 Years Optional)		