

## High Frequency Inverter Selection Guide (Technical Parameters)

Factory Model		3024SMH	4024SMH	5548SMH	6248SMH	8648SMH	11048SMH	
Input	Input format	L+N+PE						
	Rated input voltage	220/230/240VAC						
	Voltage range	90-280VAC±3V (normal mode) 170-280VAC±3V (UPS mode)						
	Frequency range	50Hz/60Hz (adaptive)						
Output	Output rated power	Battery Inverter	3000W	4000W	5500W	6200W	8600W	11000W
		Photovoltaic Inverter	3600W	4500W	6500W	6500W	11000W	12000W
	Output voltage	220/230/240VAC±5%						
	Output frequency	50/60Hz±0.1%						
	Waveform	Pure sine wave						
	Switching time (adjustable)	Computer equipment 10ms, home appliances 20ms						
	Peak Power	6000VA	8000VA	11000VA	12400VA	17200VA	22000VA	
	Overload capacity	Battery mode: 21s@105%~150% Load;11s@150%~200% Load;400ms@>200% Load						
Grid-connected operation	Output voltage	220/230/240VAC						
	Feed-in grid voltage range	170-265VAC						
	Feed-in grid frequency	49-51±1Hz/59-61±1Hz						
	Nominal output current	13A	15.7A	21.7A	23.9A	26.9A	47.8A	
	Power factor range	>0.99						
Maximum conversion	98%							
Battery	Rated voltage	24Vdc	24Vdc	48Vdc	48Vdc	48Vdc	48Vdc	
	Constant voltage charging	28.2Vdc	28.2Vdc	56.4Vdc	56.4Vdc	56.4Vdc	56.4Vdc	
	Float charge voltage	27Vdc	27Vdc	54Vdc	54Vdc	54Vdc	54Vdc	
Charger	PV charging method	MPPT	MPPT	MPPT	MPPT	Dual MPPT	Dual MPPT	
	PV maximum input power	5000W	6500W	8500W	8500W	2×6500W	2×7500W	
	MPPT input voltage range	60-500Vdc				90-500Vdc	90-500Vdc	
	Optimal Vmp working	300~400Vdc	300~400Vdc	360~430Vdc	360~430Vdc	360~430Vdc	360~430Vdc	
	Maximum PV input voltage	500Vdc	500Vdc	500Vdc	500Vdc	500Vdc	500Vdc	
	Maximum PV input current	18A	27A	27A	27A	27A/27A	27A/27A	
	Maximum PV charging	100A	120A	100A	120A	150A	150A	
	Maximum AC charging	60A	100A	100A	100A	150A	150A	
	Maximum charging current	100A	120A	100A	120A	150A	150A	
Show	LCD Interface	Can display operation mode/load/input/output, etc.						
Interface	RS232	Baud rate 2400						
	Expansion slot	Lithium battery BMS communication card, WIFI card, dry contact card, etc.						
	Parallel interface	No parallel function	No parallel function	Parallel (network) function	Parallel (network) function	Parallel (network) function	Parallel (network) function	
Environmental parameters	Operating temperature	-10~50°C						
	Operating environment	20%~95% (no condensation)						
	Storage temperature	-15~60°C						
	Altitude	The altitude should not exceed 1000m, and the rating will be derated above 1000m, the maximum is 4000m, refer to IEC62040						
Physical parameters	noise	≤50db						
	Depth × width × height							
Weight (for reference) KG	6.58	TBD	7.78	7.78	7.78	15.3		
Standards and certifications	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1							

Note: (1) The real-time updated data of weight and size can be found in the [TQF Production Machine Packaging Dimension and Weight Record Table] file by material code. The installation dimensions shall be subject to the instruction manual.