

# HTM250 Modular Inverter System

The HTM250 modular inverter system is made up of the TM250 inverter/s and the TJ10/TJ30 monitor and STS module. The HTM250 is available in various configurations for both single and three phase output.

The inverter module is a compact, light-weight inverter with high switch frequency and modern semiconductor technology. It can be set up to run in parallel supporting small of medium systems.

The monitor & static transfer switch module allows for real-time system monitoring and keeps a history of up to 100 records.

## Some key features of the inverter modules include:



- N+1 redundant configuration
- Active current sharing technology
- Pure Sine wave output < 3% THD
- Hot plug design
- DC-AC isolation for greater system security
- AC voltage selectable 110V<sub>AC</sub> or 230V<sub>AC</sub>
- Efficiency up to 87%

## Some key features of the monitor module include:

- Built-in STS with transfer time < 4ms
- LCD display
  - Working mode selectable (AC or DC priority)
- RS485 or RS232 communication port
- Dry contact relay (x6)
- Auxiliary contact (x16)
- Built-in SNMP card – optional
- Real-time clock



## Product Specifications

Model		TM251M	TM252S	TM253S
Capacity		1kVA	1.5kVA	2kVA
Electrical	Nominal DC Input	24/48V <sub>DC</sub>	48V <sub>DC</sub>	
	DC Operating Range	-18 – 25%		
	Wave form	Pure Sine wave		
	THD	< 3% - linear load / < 5% non-linear load		
	Power Factor	0.8		
	Nominal Output	230V <sub>AC</sub> OR 110V <sub>AC</sub> ±2%		230V <sub>AC</sub> ± 2%
	Output Frequency	50/60Hz ± 0.1%		
	Crest Factor	3:1		
	Efficiency	85 – 87%		
	Overload	150% for 60sec		
Dynamic Response Time		< 20ms		
Other	Operating Temperature		-10 – 40 <sup>0</sup> C (14 – 104 <sup>0</sup> F) @ Full load	
	Isolation		1500V <sub>rms</sub>	
	Safety		EN60950-1	
	Emission		EN55022	
	Immunity		EN55022	

Model		TM251M	TM252S	TM253S
Capacity		1kVA	1.5kVA	2kVA
Electrical	Nominal DC Input	110V <sub>DC</sub> or 220V <sub>DC</sub>		
	DC Operating Range	-20 – 30%		
	Wave form	Pure Sine wave		
	THD	< 3% - linear load / < 5% non-linear load		
	Power Factor	0.8		
	Nominal Output	230V <sub>AC</sub> OR 110V <sub>AC</sub> ±2%		230V <sub>AC</sub> ± 2%
	Output Frequency	50/60Hz ± 0.1%		
	Crest Factor	3:1		
	Efficiency	Max 88% / 89%		
	Overload	150% for 60 seconds, 125% for 10 minutes		
Other	Dynamic Response Time	< 20ms		
	Operating Temperature	-10 – 40°C (14 – 104°F) @ Full load		
	Isolation	1500V <sub>rms</sub>		
	Safety	EN60950-1		
	Emission	EN55022		
	Immunity	EN55022		