

ELIT M
Series

Elit M Series Inverter Technical Specifications
1000 - 6000W



MODEL	ELIT 1012M 1024M	ELIT 2012M 2024M	ELIT 3012M 3024M	ELIT 4024M 4048M	ELIT 5024M 5048M	ELIT 6024M 6048M
INVERTER OUTPUT						
Continuous Output Power	1000W	2000W	3000W	4000W	5000W	6000W
Surge Rating(20s)	3000W	6000W	9000W	12000W	15000W	18000W
Output Waveform	Pure Sine Wave / Same as Input (Bypass Mode)					
Nominal Efficiency	>88% (Peak)					
Line Mode Efficiency	>95%					
Power Factor	0.9-1.0					
Nominal Output Voltage RMS	230Vac					
Output Voltage Regulation	±10% RMS					
Output Frequency	50/60Hz ± 0.3Hz					
Short Circuit Protection	Yes, Current Limit Function (Fault after 1sec)					
Typical Transfer Time	10ms					
THD	< 3%					
DC INPUT						
Nominal Input Voltage	12.0Vdc (*2 for 24Vdc, *4 for 48Vdc)					
Minimum Start Voltage	10.0Vdc					
Low Battery Alarm	10.5 / 11.0Vdc					
Low Battery Trip	10.0 / 10.5Vdc					
High Voltage Alarm & Fault	16.0Vdc					
Idle Consumption-Search Mode	< 25 W when Power Saver On					
CHARGE						
Input Voltage Range	Narrow 194~243VAC; Wide 164~243VAC					
Output Voltage	Depends on battery type					
Max Charge Rate (±5A)	35A / 75A					
Over Charge Protection Shutdown	15.7V for 12Vdc (*2 for 24Vdc, *4 for 48Vdc)					
Charger Breaker Rating	10A		20A		30A	
BYPASS & PROTECTION						
Input Voltage Waveform	Sine wave (Grid or Generator)					
Nominal Voltage	230Vac					
Low Voltage Trip	184V/154V±4%					
Low Voltage re Engage	194V/164V±4%					
High Voltage Trip	253V±4%					
High Voltage re Engage	243V±4%					
Max Input AC Voltage	270VAC					
Nominal Input Frequency	50Hz or 60Hz (Auto detect)					
Low Freq Trip	47±0.3Hz for 50Hz, 57±0.3Hz for 60Hz					
High Freq Trip	55±0.3Hz for 50Hz, 65±0.3Hz for 60Hz					
Output Short Circuit Protection	Circuit Breaker					
Bypass Breaker Rating	35A (Alarm)			45A (Alarm)		
Max Bypass Current	30A			40A		
MECHANICAL SPECIFICATIONS						
Mounting	Wall Mount					
Dimensions (L*W*H) mm	382*218*179		442*218*179		598*218*179	
Inverter Weight (Net/Gros kg)	18 / 21	20 / 23	24 / 27	35 / 39	45 / 49	45 / 49
Display	Status LEDs					
ENVIRONMENTAL						
Acoustic Noise	< 60 dBA					
Operating Temperature	Full capacity output @ -10-40 °C/ Derating >40 °C					
Relative Humidity	5% - 95%					
STANDARTS						
Standards	EN50091-2, EN60950					

GENERAL SPECIFICATIONS

- High overload ability up to 300% rated power (20 sec)
- Selectable Low voltage trip
- Low quiescent current
- 3-step intelligent battery charging
- 8 preset battery type selector plus de-sulphation for totally flat batteries
- Selectable Charge Current
- PFC (Power Factor Correction) for charger,
- Less power consumption than conventional units
- Battery/AC priority switch available for off grid solar/wind system
- Alarms/warnings, informative for easier operation and trouble-shooting
- Selectable Input AC voltage range (194-243V or 164-243V), for different kinds of loads

High Frequency Inverter

Elit M Series inverters are devices forming line voltage from 12 V, 24 V and 48 V battery voltage used in daily life and business life. Thanks to practical uses, output isolation transformer structures and charging facilities, these units are used safely in land and sea vehicles and open spaces. Because generates output voltage in the form of Sinusoidal, they offer trouble-free solution to all kinds of loads such as computer, TV, refrigerator, lighting, engine load and so on.