



- Designed for industrial conditions
- Unmatched surge capacity
- DC input options: 12, 24, 48, 110, 125V (nom)
- True sine wave output
- High efficiency
- DC input circuit breaker
- Isolation between input and output
- Under/over voltage protection
- Overload /short circuit protection
- Over temperature protection
- Low standby current
- Battery leads supplied

The LS Series inverter utilises the most advanced microprocessor algorithms which guarantees your power conversion is pure and stable.

- Warranty: 24 mths (36 mths 2000W & above)

SPECIFICATIONS All specifications are typical at nominal input, full load and at 20°C unless otherwise stated.

ELECTRICAL	
Input	10.5 - 160VDC
Output Voltage	230/240V AC (110/120V optional)
Output Frequency	50Hz ± 0.1% (60Hz by internal dip switch)
Input protection	DC circuit breaker
Input/Output isolation	3500VDC
Total Harmonic Distortion	<4%
Auto start sensitivity	0 - 20W adjustable (preset at ~ 5W)
Protection Circuitry (factory default reset = auto reset 8 mins, overload max. 5 restarts)	<ul style="list-style-type: none"> • Overtemperature • Overload/short circuit • Battery undervoltage (setting adjustable by internal dip switch) • Battery overvoltage
Power Factor	All conditions (Note: Rating is in VA unless PF = 1)
Load Regulation	No load to full load: ± 4%

ENVIRONMENTAL	
Operating Temperature	-10 to 50° C ambient
Storage Temperature	-20 to 70° C
Cooling	Internal long life fan (temperature controlled)

PHYSICAL	
Input Connection	Battery Leads: (included) 500-600W: 1m long with 10mm lugs 1000-7000W: 1.5m long with 10mm lugs
Output Connections	500-600W: Single power outlet 1000-1800W: Single power outlet & junction box 2000-7000W: 3 terminal hardwired junction box
Mounting	Wall mount

FEATURES	
Conformal coating: Standard on all models to provide extra protection against moisture ingress.	
Toroidal transformer provides full isolation between AC and DC for extra safety and helps withstand fault conditions.	
Performance The LS Series inverter with unmatched surge power enables the operation of demanding appliances, such as fridges, microwaves, washing machines and pumps.	
Instantaneous undervoltage shutdown To protect your battery from deep discharge, the inverter will disconnect if the battery voltage falls below 75% of the nominal battery voltage. This feature can be disabled if starting a big load off a small battery.	
High performance The LS Series Inverters offer a high surge rating to endure the starting of the most demanding appliances. They also have a generous half hour rating to enable the operation of larger loads for short periods.	
Reliability Innovative microprocessor monitoring ensures your Inverter is fully protected against overload, AC short circuit and over temperature. High and low DC voltage shutdowns offer further protection for your batteries, allowing trouble free operation.	
Autostart Sophisticated sensing circuitry automatically switches the inverter OFF when no load is connected to the inverter. If a load is detected the inverter will automatically start up. The Autostart is an important feature where there is limited battery capacity. Sensitivity of the Autostart can be easily adjusted to set the load required before the inverter will start, or be set to run continuously.	
Durable construction The LS Series Inverters are a quality product made to withstand vibration and constant movement in mobile or marine installations, as well as the diverse range of home or commercial applications.	

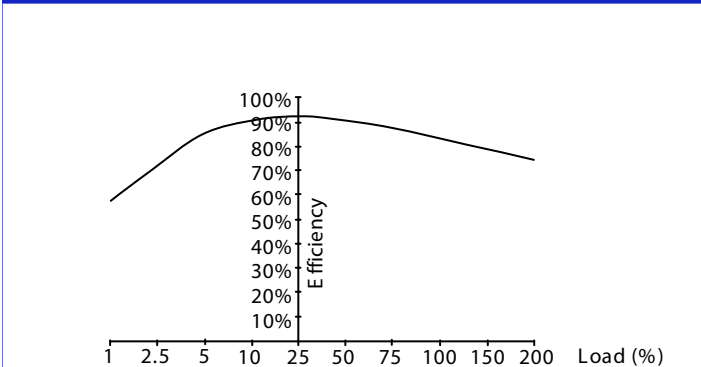
DIMENSIONS	
Size	L X W X H mm
500 - 600W	260 x 160 x 100
1000 - 1800W	330 x 296 x 150
2000 - 3500W	370 x 386 x 180
4000 - 7000W	475 x 458 x 187

500 - 7000 Watt DC / AC True Sine Wave Inverters

STANDARD MODEL TABLE

MODEL	DC Input				AC Output : 230V, 50Hz			Peak Efficiency %	Weight kg
	Voltage Nom (Range) V	Inst. Shut-down V	Standby Current mA	Inverter On, no load mA	Continuous Power W (PF=1)	1/2 Hour Rating W	Surge 5 sec. W		
LS-512	12 (10.5-17)	9	27	420	500	550	1500	90	5.5
LS-624	24 (21-34)	18	22	310	600	750	2000	92	5.5
LS-648	48 (42-68)	36	19	150	600	750	2000	93	5.5
LS-6110	110 (80-140)	68	16	150	600	750	1500	93	5.5
LS-6125	125 (96-160)	85	15	140	600	750	1500	93	5.5
LS-1012	12 (10.5-17)	9	37	450	1000	1150	3000	91	11
LS-1224	24 (21-34)	18	28	250	1200	1600	3600	92	11
LS-1248	48 (42-68)	36	22	190	1200	1600	3600	94	11
LS-12110	110 (80-140)	68	18	160	1200	1600	3600	94	11
LS-12125	125 (96-160)	85	17	140	1200	1600	3600	94	11
LS-1512	12 (10.5-17)	9	42	670	1500	1600	4500	91	14
LS-1824	24 (21-34)	18	30	320	1800	2200	5400	94	14
LS-1848	48 (42-68)	36	24	260	1800	2200	5400	94	14
LS-18110	110 (80-140)	68	18	210	1800	2200	5400	94	14
LS-18125	125 (96-160)	85	17	190	1800	2200	5400	94	14
LS-2012	12 (10.5-17)	9	75	1100	2000	2200	6000	90	22
LS-2324	24 (21-34)	18	45	510	2300	2800	7000	94	22
LS-2548	48 (42-68)	36	35	300	2500	3000	7500	94	22
LS-3024	24 (21-34)	18	50	600	3000	3700	9000	93	24
LS-3548	48 (42-68)	36	40	330	3500	4100	10500	94	24
LS-4024	24 (21-34)	18	60	1100	4000	4500	12000	94	30
LS-5048	48 (42-68)	36	55	500	5000	6000	15000	95	30
LS-7048	48 (42-68)	36	60	500	7000	8500	20000	95	34

EFFICIENCY vs LOAD



STANDARDS

Designed to meet	AS 2279 AS 3001 C-TICK AS/NZS 4763:2011 provided RCD fitted on output (see option -D)	AS 3000 EN55014
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OPTIONS

AC Transfer Switch	Automatically transfers load between inverter and generator/mains (changeover < 0.02 second)
• 1000-1800W = K	Default = normal supply from mains/ generator, specify 'industrial' if normal supply from inverter
• 2000-7000W = KX (-KX has on delay timer & voltage sensing module)	
100-120VAC output	Option - V
60Hz output	Option - H
Vibration proofing	Ruggedisation option - R
Tropicalisation	MIL Spec conformal coating to final assembly - G
RCD in place of hardware junction box	Residual current device option - D
No power outlet (GPO)	Option - N
Alarm (all models)	Inverter fail -L
Alarm (models with transfer switch)	Output fail -O Mains fail -M