

# micromax

revolutionary energy solutions

# energy

## GRID-TIE STRING INVERTER

Range Available :  
**1KW - 60KW**



### Features :

- High efficiency
- Ultra wide input voltage range
- Precise MPPT algorithm
- Compact and light design for one-person easy installation
- IP65 visually pleasing for domestic environment
- Wi-Fi interface
- Numerous protection functions
- WiFi and monitoring app available
- 5 years standard warranty / 10 years optional upgrade

### General Data

Topology	Transformerless
Self Consumption	<1w(night)
Operating Ambient Temperature Range	-25° 60°C
Ingress Protection	IP65
Noise Emission (Typical)	<30 dBA
Cooling Concept	Natural Convection
Max. Operation Altitude	4000 m
Designed Lifetime	>20 years
Grid Connection Standard	En50438, G83/2, As4777 G59/3, VDE012G-1-1, IEC61727
Relative Humidity	0~100%
Safety/EMC Standard	EN61000-6-1:2007, EN61000-6-3:2007, IEC62109-1/-2, AS3100

### Protection :

DC reverse-polarity Protection	Yes
Short Circuit Protection	Yes
Output Over Current Protection	Yes
Output Over Voltage Protection	Yes
Insulation Resistance Monitoring	Yes
Residual Current Detection	Yes
Surge Protection	Yes
Grid Monitoring	Yes
Islanding Protection	Yes
Temperature Protection	Yes
Integrated DC Switch	Optional

microlyte

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## Electrical Performance

MODEL	MLGS 1K-S1A (1kW)	MLGS 1.5S1A (1.5kW)	MLGS 2K-S1A (2kW)	MLGS 3K-S1A (3kW)	MLGS 3.6K-S1B (3.6kW)	MLGS 5K-S1B (5kW)	MLGS 6K-T1C (6kW)	MLGS 10K-T1C (10kW)	MLGS 15K-T1C (15kW)	MLGS 20K-T1C (20kW)	MLGS 30K-T1C (30kW)	Microlyte -50K (50kW)	Microlyte -60K- (60kW)
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### Input Side (DC)

Max. DC Power	1.2kWp	1.8kWp	2.4kWp	3.6kWp	4.32kWp	6kWp	7.2kWp	12kW	18kW	24kW	36kW	60kW	72kW
Max. DC Input Voltage	450V	450V	500V	600V			1000V		1000V		1000V	1100V	
Start-up DC Input Voltage	>60V		>120V			>330V		>330V		>350V	>200V		
MPPT Voltage Range	50-400V			100-500V			200-800V		200-800V		200-800V	200-1000V	
Max. Input Current	10A		2*10A	2*10A	2*15A	2*10A	2*18A	2*18A	4*18A	4*18A	4*18A	4*28.5A	4*28.5A
MPPT Number	1		2			2		2	4	4	4	4	
Max. Input Strings Number	1		2			2		4	8	8	12		

### Output Side (AC)

Rated Output Power	1kW	1.5kW	2kW	3kW	3.6kW	5kW	6kW	10kW	15kW	10kW	30kW	50kW	60kW
Rated Grid Voltage	220V / 230V / 240V						400V	400V	400V	400V	400V	400V	480V
Grid Voltage Range	150~276V						320 ~ 480V		320 ~ 480V		320~480V	304~460V	384~576V
Rated Grid Frequency	50 Hz						50 Hz		50 Hz		50 Hz	50/60 Hz	
Operating Phase	Single						Three		Three		Three	Three	
Max. Output Current	6.1A	9.2A	12.2A	15.7 A	16 A	23.8 A	10.0A	16.7A	25A	28.7A	43.3A	83.3A	80 A
Power Factor	±0.8						±0.8		±0.8		±0.8		
THDi	<3% at rated power						<3% at Rated Power		<3% at Rated Power		<3% at Rated Power		
DC Injection Current	<20mA						<20mA	<20mA	<50mA		<50mA		
Grid Frequency Range	47 Hz ~ 52Hz						47 Hz ~ 52Hz		47 Hz ~ 52Hz		47 Hz ~ 52 Hz or 57 Hz ~ 62 Hz		

### Efficiency

Max. Efficiency	96.70%	96.70%	96.70%	97.50%	97.50%	97.80%	98.20%	98.20%	98.30%	98.60%	98.60%	98.80%	99.00%
EU Efficiency	96.20%	96.20%	96.20%	96.80%	96.80%	97%	97.30%	97.30%	97.50%	98.30%	98.30%	98.40%	98.50%
MPPT Efficiency	99.90%						99.90%					99.90%	

### Mechanical Data

Dimensions	270W*433H*105D(mm)			339W*565H*172.50D(mm)			430W*613H*269D(mm)			530W*700H*356.5D(mm)			630W*700H*357D(mm)	
Weight	5.2 Kg	5.6kg	5.6kg	13.8kg	13.8kg	15.8kg	29kg	29kg	30kg	57.2kg	58.2kg	63.00kg	68.00kg	

### Features

DC Connection	Mc4 Connector						Mc4 Connector						MC-4 MATEABLE	
AC Connection	Ip67 rated plug						IP67 rated plug			Terminal Connectors			Terminal Connectors	
Display	LCD 2x20 Z						LCD 2x20 Z			7.0" LCD color screen Display			LCD 2*20	
Interface	WIFI			WIFI, R5485 GPRSOptional									4 Pin RS485 Connector, 2RJ45 Connector, 2 Group of Terminal Block	
Warranty (Extendable Optional)	5 Years Standard (upto 10 years)						5 Years Standard (upto 10 years)						5 Years Standard (upto 20 years)	

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