



POWER BEYOND THE GRID

Solar Microgrid Solutions



Why Choose SOLARSAVE™ Microgrid?

SOLARSAVE™ microgrid system combines modular hardware and intelligent software to deliver flexible & reliable power. It supports multiple energy sources, enables fast deployment, and ensures stable, automated operation across various industries.

- **Mobile Power**
Energy delivered wherever you need it.
- **No Fixed Setup**
No permanent infrastructure required.
- **Multi-Source Energy**
Supports solar, battery, and hybrid systems.
- **Smart Control**
Automated, centralised system operation.



Application Scenarios



Temporary
Construction Sites



Mining Sites



Islands



Oil & Gas

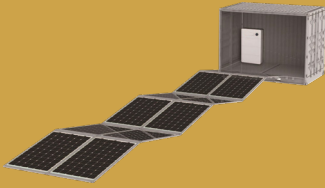


Emergency



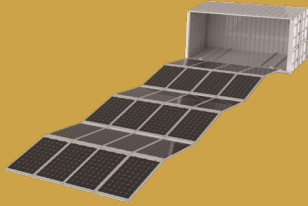
Events

Range of Products



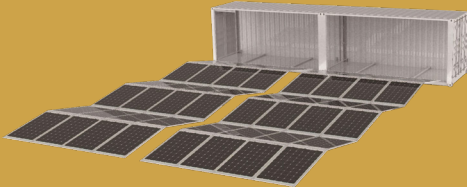
SSMG-54S4-10B

54kW ITRAMAS™ Microgrid



SSMG-144S4-10B

144kW ITRAMAS™ Microgrid



SSMG-144HS4-10B

500kW ITRAMAS™ Microgrid

CORE TECHNOLOGY

Powering Smart Microgrid Solutions

Smart, self-sustaining energy system integrating solar, storage, and grid support for reliable and efficient power supply.



Microgrid System

A smart, self-sustaining energy ecosystem that integrates solar, energy storage, and grid support for a reliable and efficient power supply.



Energy Storage

High-performance battery energy storage system designed to optimise energy usage.



Power Management

Advanced control system that enables efficient energy flow between solar, energy storage, and the grid.



Infrastructure

Modular, durable system built for industrial environments and flexible deployment.



Platform

Intelligent energy management with real-time monitoring, data analytics, and remote diagnostics.

54S4 Microgrid Series



SSMG-54S4-10B

Data Sheet

General Data

Type	LMP-10-54
Solar Capacity	54kWp
Container Type	10GP
External Dimensions (L×W×H)	2991×2438×2591mm
PV Array Area (L×W)	108×2.9m
Total Area	313.2m ²
Total Weight	9t
Container Weight	1.5t
Deployment Time	120mins
Estimated Annual Generation	78,840 kWh/year

Solar Module

Type	N-Type Bifacial
P _{max}	540Wp
Quantity	100pcs
Max. Power Voltage	34.79V
Max. Power Current	15.52A
Open Circuit Voltage	40.43V
Short Circuit Current	16.32A
Dimensions	1976×1134×30mm

Inverter

Rated Inverter Capacity	50kW
System Voltage	DC 1000V
Quantity of Strings	5
String Connection	20pcs/String
Inverter Installation Position	Reserved
Container Corrosion Protection	C5

Mounting System

Material	ZAM Steel
Modules per Fold	2pcs
Folds / Counterweight Blocks	50 / 102
Tilt Angle	10°
Minimum Ground Height	30cm
Maximum Wind Resistance	55m/s
Folding / Unfolding Mechanism	Manual / Semi-auto / Fully-auto

144S4 Microgrid Series



SSMG-144S4-10B

Data Sheet

General Data

Type	LMP-20-144
Solar capacity	144kWp
Container Type	20HQ
Unfolding area L*W	132.7*6m
Area size	796.2m ²
Total weight	16t
Deployment time	360-480mins
System voltage	DC 1000V
Estimated annual generation	210,240kWh/year

Solar Module

Type	N-Type Bifacial
Pmax	720Wp
Qty	200pcs
Dimension	2384*1303*33mm
Tilt angle	10°

Inverter

Rated inverter capacity	110/125kW
System voltage	DC 1000V
Quantity of strings	10
String connection	20pcs/String
Installation position	Reserved
Container corrosion protection	C5

Mounting System

Material	ZAM Steel
Modules per fold	4pcs
Folds qty	50
Wind-resistant	55m/s
Counterweight blocks	102
Convey system	Manual / Semi-auto / Fully-auto

144HS4 Microgrid Series



SSMG-144HS4-10B

Data Sheet

General Data

Type	LMP-20-144H
Solar capacity	144kWp
Container Type	20HQ
Unfolding area L*W	132.7*6m
Area size	796.2m ²
Slope limit	-
Horizontal gap	-
Installation time	360-480mins
Installation worker	-

Solar Module

Pmax	720Wp
Qty	200pcs
Dimension	2384*1303*33mm
Tilt angle	10°
Best Azimuth	-

Inverter

Nominal output power	250kW
Qty	1
Mode	2 units in parallel
Nominal output voltage	-
Max. output current	-
Nominal voltage frequency	-
Max. efficiency	-
Protection	-

Mounting System

Material	ZAM Steel
Modules per fold	4pcs
Folds qty	50
Wind-resistant	55m/s
Anti-corrosion	-
Convey system	Manual / Semi-auto / Fully-auto

Notes





SOLARSAVE™

Microgrid

Why Choose ITRAMAS™

- ✓ Award winning green technology company since 1999
- ✓ The largest vertically integrated Renewable Energy Developer
- ✓ Operating 200 MWp and developing 1.5GWp Large Scale Solar Plant
- ✓ Extensive experience and expertise in the solar industry
- ✓ Executed more than 1000 residential and commercial solar projects

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