

Creating technology to keep the sky blue...

MAVISOLAR POWER STORAGE AND SHIFTING UNIT



MAVISIS | MAVI SOLAR

POWER STORAGE AND SHIFTING UNIT



- Power options starting from 36kWp
- Up to 110% power transfer capability
- Bi-directional operation feature
- 240 series connected LiFePO4 battery cell charge and discharge capability
- 360 series connected lead acid battery cell charge and discharge capability
- Active and reactive power control feature
- High availability
- Modular architecture
- Communication and control over CANBUS
- Low troubleshooting time
- Non-technical technical staff can troubleshoot
- Extended warranty and up-time guarantee.
- Horizontal efficiency curve
- Can be used with data logger
- Can be used with MODGES inverters
- Can be used with power station solution

Mavi Solar MODGES Power Shifting Modules can be used with Mavi Solar MODGES inverter solution and remote monitoring system.

You can contact us to order products with different specifications.

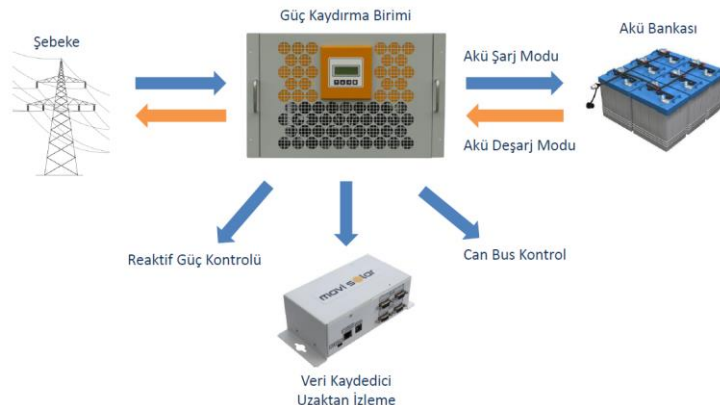
Usage Areas

Mavi Solar MODGES Power Shifting Modules is a modular, bi-directional inverter solution with innovative and high-performance price ratio that is used as energy storage unit in intelligent network applications.

System

MODGES Power Shifting Units;

- ✓ Thanks to its bi-directional energy transfer capability, it takes energy from the network at the cheapest hours and stores it in battery units. Then it transfers energy to loads from battery when electricity is expensive.
- ✓ It enables active power and reactive power control to keep the power coefficient at the desired value and to stabilize the network.
- ✓ It can comfortably meet high energy demand thanks to its 110% continuous loading capability.
- ✓ It can be controlled using CANBUS communication protocol.
- ✓ Production information can be followed 24 hours by using remote monitoring system.
- ✓ Higher power levels can be achieved by operating in parallel.
- ✓ Parallel running Power Shifting Units can be used within Mavi Solar power station solution.
- ✓ It has a high efficiency with horizontal efficiency curve.



Mavi Solar MODGES-I MSXI-3336-PS

Grid Connected Power Shifting Module

Technical Properties

	MSXI-3336-PS
Battery Input	
Battery Charge Power Limit	%4- %110
Battery Discharge Power Limit	%4- %110
Battery Cell Number and Type	240-unit LiFePO4 cell or 360-unit Lead – Acid cell
Grid Output	
Nominal Power	32 kW AC
Maximum Power	%110
Voltage (phase-neutral)	3 x 230 V
Voltage Range Phase - Neutral / Phase – Phase	160VAC – 280VAC / 278VAC – 485VAC
Frequency	50 Hz
Frequency Range	44Hz – 66Hz
Maximum Current	3 x 48 A
Maksimum THD (%)	< 2.5
Power Factor	-0.8 ... +0.8
Maximum Efficiency	%98,3
Environmental Conditions	
Cooling	Without Fan / Low Cycle Fan / Full Cycle Fan
Temperature	-10 °C – 50 °C (Full Load) 50 °C – 60 °C (Power Clipping)
Acoustic Noise	<55 dB, 1 m
Protection Class	IP 20
Standards	
EMC	EN-61000-3-11, EN-61000-3-12, EN-61000-6-2, EN-61000-6-4
Safety	EN-62109-1, EN-62109-2
Grid and Islanding Protection	IEC-62116(TUV Rheinland), IEC-61727 (TUV Rheinland)
Protections	Overvoltage Protection, DC Current Protection, Overcurrent Protection, Overtemperature Protection, Overload Protection, Earth Fault Protection, Leakage Current Protection
Warranty period (years)	2 (Contact our company for extended warranty)

Mavisis Teknoloji Enerji San. Tic. A.S.

Dudullu Organize Sanayi Bolgesi
2. Cadde, No: 7,
Zemin Kat, 34775
Umraniye / Istanbul / Turkey

www.mavisolar.com

Tel : (+90) 216 807 06 28

Fax : (+90) 216 807 06 30

Email : info@mavisis.com

