

MICRO-MOBILEGRID 200 - MMG 200



Photovoltaic Module



Solar Charge Controller



12V/100Ah Lead Acid Battery



DC Switch Disconnecter



Mid Clamp



End Clamp



Structure & Rail



DC Cable

- 2 modules of 100 Watt peak power rating. Professional premium solar modules with superior performance. Applying industry-leading product quality and reliability for residential and commercial rooftops. Over 21% efficiency with 25 years output warranty.
- One MPPT solar charge controller. High PV harvest performance in weak sunlight conditions. Excellent peak efficiency exceeds 98%.
- One Lead Acid Battery, with long battery life and long battery life. The material of the shell is flameproof and explosion-proof, so it is safe to use.
- One complete set of solar mounting structures that are highly corrosion resistant with 4 end side clamps, 2 mid clamps, 1 set of 3 meter rails.
- DC PV cables from the photovoltaic modules to controller 3 meters length.
- One set of DC switch disconnecter.

*Subjected to manufacturer's changes in design and specification.

200Wp

Solar Power Capacity

98%

Performance Efficiency

25 Years

Photovoltaic Modules Output Warranty



Industry leading conversion efficiency



Positive tolerance and high-performance



Certificated to withstand wind load (2400Pa) and weight load (7200Pa)



Passed salt mist corrosion testing and ammonia corrosion testing



Excellent performance under weak sunlight conditions



Good temperature coefficient performance enables better output in the tropical region

UTICA® is a leading Singapore based renewable energy company of small to large-scale power systems, delivering unmatched quality to commercial and residential customers.

As a BizSAFE Star, ISO certified, BCA registered professional solar energy systems provider, we bring together cutting-edge innovation and dedicated customer service.

Our mission is to be a part of the environmental solution while maintaining the highest quality standards of customer service and satisfaction.

UTICA® offers customers more than just one more choice in electricity source. We offer our customers the opportunity to make a difference for the environment by supporting cleaner, renewable sources of energy instead of limited and polluting fossil fuels.

Photovoltaic Modules

Module type	100Wp
Nominal Power Voltage - V_{MPP} (V)	18V
Nominal Power Current - I_{MPP} (A)	5.56A
Open Circuit Voltage - V_{OC} (V)	22.5V
Short Circuit Current - I_{SC} (A)	6.11A
Panel Efficiency (%)	21
Dimensions	770 x 671 x 25mm
Area	0.52 m ²
Weight	5.4 kg



Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 1000 W/m², temperature 25°C, All the above parameters are subject to 3% tolerance).



MPPT Solar Charge Controller

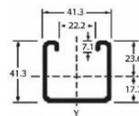
Battery System Voltage	12V/24V	Battery Types	FLD/SEL/GEL
No-load Loss	12mA/12V; 10mA/24V	Boost Charge Voltage	14.6V*n/ 14.4V*n/ 14.2V*n
Max Solar Input Voltage	<100Voc	Over-discharge Voltage	11.1V*n
Rated Solar Charge Current	20A	Environmental protection rating	IP32
Max Solar Input Power	300W/12V; 600W/24V	Size(L x W x H)	180 x 140 x 71mm
Max Load Output Current	20A	Weight	1.0kg

Lead Acid Battery

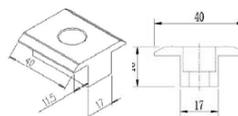
Type of Battery	Lead Acid Battery	Float Life	5 Years
Nominal Voltage	12V	Environmental protection rating	IP65
Nominal Capacity	100Ah	Size(L x W x H)	352 x 196 x 272mm
Cyclic Life	50%(C10) Depth of discharge 600Times	Weight	29kg

Structures and Accessories

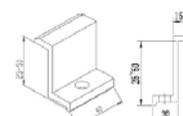
Solar mounting frames are highly corrosion resistant structure system that is made up of zinc, aluminum and magnesium. Tested and approved certifications with TÜV SÜD.



Rail



Mid Clamp



End Clamp

Outdoor PV Cables

AC Cable		DC Cable	
Cross section (mm ²)	1 x 4	Cross section (mm ²)	1 x 4
Diameter (mm ²)	5.3	Conductor construction (n x mm)	52 x 0.30
Open Air (A)	55	Conductor (mm)	2.55
Inst. on surface (A)	52	Outer (mm)	5.05
Inst adjoining to surface (A)	44	Resistance	5.09
Voltage drop (V/A km)	14.3	Fire load (kWh/m)	0.086
Weight (Kg/km)	57	Weight (kg/km)	56

Combine



UTICA® DC switch disconnector for enclosed and open switch-isolator for voltages up to 1000VDC 32A. Switch enclosure features degree of protection IP66.

Packaging

Item	Dimensions(LxWxH) mm
Photovoltaic Modules	800 x 700 x 60
Controller & Battery	430 x 280 x 200
Structure & Accessories	1000 x 50 x 50
Others	200 x 200 x 200

System Design

Temperature range	-40°Cto+85°C
Hail	maximum diameter of 25mm with impact speed of 23m/s(51.2mph)
Maximum surface load capacity	7200pa