



MANGO POWER





Mango Power M

Backup Your Entire House Safely

**Power for All.
Even HVAC.**

15kWh battery capacity.
Expandable up to 80kWh.

12kW AC Output.
Expandable up to 120kW.

Powers HVAC and
other high wattage
appliances.

**CATL's LFP
Battery. No Fire.**

The best battery in the
industry. Totally safe.

6,000 life cycles. Can be used
for 20 years.

-4°F - 140.0°F Temperature
Resilience.

**5-in-one Inverter.
Less Trouble.**

Mango Power M
Integrated Hybrid Inverter.

Solar system ready. No
additional boxes required.

Built-in ATS / AGS /
RSD Transmitter /
Breakers.

Easily achieve power independence and enjoy power freedom under any circumstances.

Unlocking the Top 10 Advantages of the Mango Power M



15kWh battery capacity.
Expandable up to 80kWh.



12kW AC Output.
Expandable up to 120kW.



Powers HVAC and other high wattage appliances.



CATL LFP Battery with a 10-year Warranty. Ensuring Safety and High Quality.



6,000 life cycles.
Can be used for 20 years.



-4°F - 140°F
Temperature Resilience.



Smart Control APP. Taking Control with the Mango Power APP.



Solar system ready. No additional boxes required.



Built-in ATS / AGS / RSD Transmitter / Breakers.



Ready for NEM 3.0 and other policies. Export power to the grid.

System Allocation: 1 x M Hybrid Inverter, 4 x M Battery System Size: 12kW/20kWh



Energy Storage



Providing Power During Outages



Sell Electricity to the Grid



Time-Based Peak Shaving



Mango Power M Spec Sheet

M Hybrid Inverter Parameters	
Maximum continuous AC output power ¹	12000W/240V & 10400W/208V
Peak power ¹	24000W 500ms
Grid-tied power factor (adjustable)	0.8 leading - 0.8 lagging adjustable
Nominal AC output voltage	120V/240V/208V
Voltage range	180V-270V
Maximum continuous AC current	50A
Nominal frequency	60Hz
Extended frequency range	55-65Hz
Max efficiency	97.5%(PV to grid) 94.0%(battery to grid)
THDI	<3%
AC - Backup Output Power Parameters	
THDV	<3%
Bypass grid switching time	<20ms
Maximum AC output over current	200A
DC-PV Parameters	
PV modules power	18000W
MPPT numbers	3 max power point trackers (two strings combined)
MPPT voltage range	120V-500V
Maximum input DC voltage	600V
Maximum input current	25/15/15A
MPPT efficiency	99.9%
M Battery 5kWh Parameters	
Battery chemistry	World's best LFP battery powered by CATL
Capacity	From 15kWh/300Ah to 20kWh/400Ah with four M Battery packs
Battery DC voltage range	44V-60V
Max charging current	Super-fast continuous charging speed, up to 1C for battery pack. 2500A for 15000Wh and 20000Wh
Max discharging current	250A (for at least 3 M Battery packs)
Roundtrip efficiency	97.0%
Weight	103.6lbs (47Kg)
Battery Working Temperature	Charging: 32°F~140°F (0°C~60°C) Discharging: -4°F~140°F (-20°C~60°C)
Life Span	6000 cycles (@25°C, +0.5C/-0.5C)

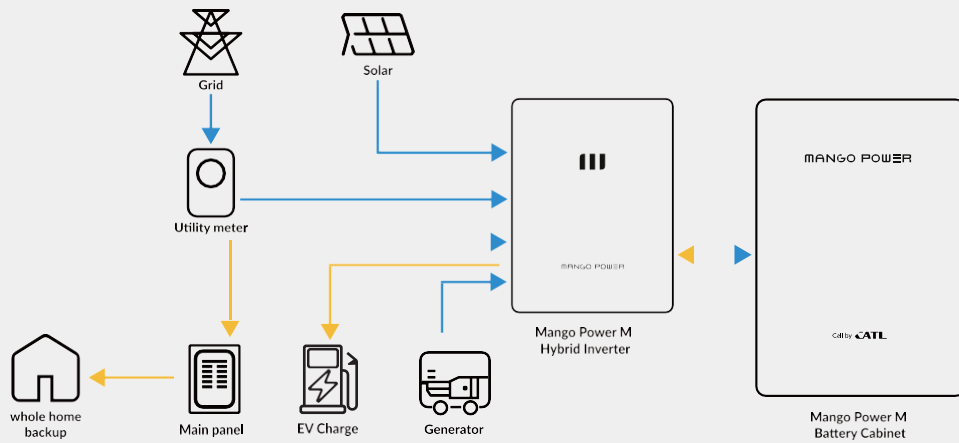
M Cabinet Parameters	
Capacity	From 1~4 M Battery packs
M Smart Screen	
WiFi Dongle	2.4G connection, 802.11b/g/n
Connection	HDMI
Features and Certification	
RSD/AFCI	PV rapid shut down integrated
Integrated disconnection	DC switch
Grid-following	Grid-tied
Grid-forming	Micro-grid
Certification	CA rule21 UL1741/IEEE1547/UL1973/UL1642/UL9540&UL9540A
Generator	Generator Smart control by AGS (Auto Generator Start); 240V/90A
AC Couple	Connect up to 21.6 kW of existing solar
Smart control	MANGO POWER App downloaded from the App Store or Google Play
System design	AC coupled and DC coupled
Grid type	120V/240V/208V Split-phase L1,L2,N,PE (single phase)
Size	36.4 x 23.7 x 11.9 inches (925.6 x 606 x 301mm) for M Power Hybrid Inverter; 31.5 x 15.4 x 46.3 inches (800 x 390 x 1182mm) for M Cabinet
Weight	119.9lbs (54.4kg) for M Power Hybrid Inverter; 103.6lbs (47Kg) for M Battery; 114.2lbs (51.8kg) for M Cabinet
Noise	<50dB (Do not install Power M next to the wall of bedroom)
Environment	Indoor and outdoor rated
Enclosure Rating	M Hybrid Inverter IP65
	M Cabinet NEMA type 4X
	M Smart Screen IP42
	M Battery 10 Years
Warranty	M Hybrid Inverter 10 Years
	M Cabinet 3 Years
	M Smart Screen 3 Years

1. Power Factor(PF)=1

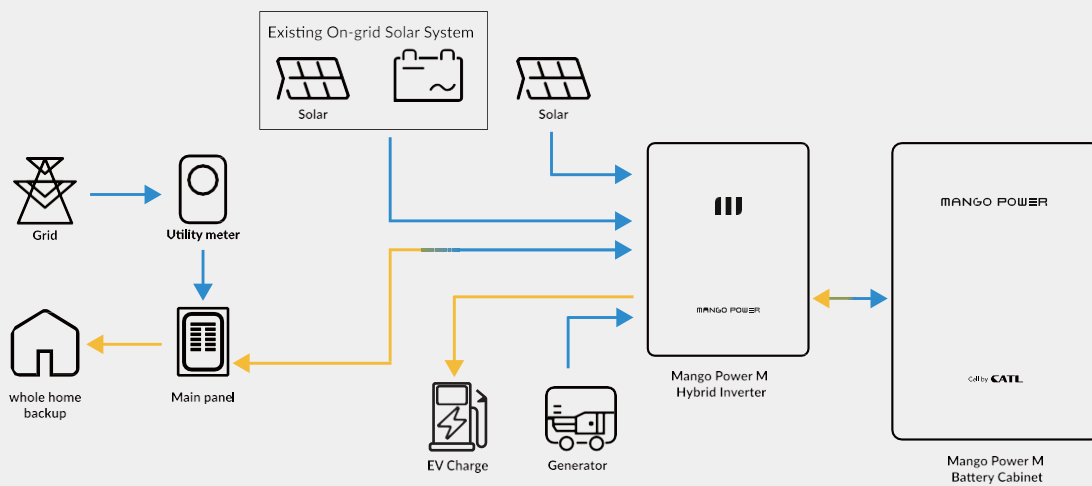
We reserve the right to make technical changes. The values, outputs, other technical data, images, and diagrams in this prospectus and in data sheets, advertisements, and other promotional documents are approximate guidelines in all cases where they have not been identified as binding.

Mango Power M Configuration

WHOLE HOME BACKUP



AC Coupling with existing solar system



Address: 17800 CASTLETON ST STE 665 CITY OF INDUSTRY, CA 91748

Website: <https://www.mangopower.com>

Email: NorthAmerica: nasales@mangopower.com

OtherRegions: sales@mangopower.com