



MANGO POWER



# Mango Power M

On/Off-Grid Power System Solution



SiC Technology  
98% Efficiency



≥8000 Cycles LFP Cells  
20 Years Lifespan



18A Max Input  
1.8x PV Array Input



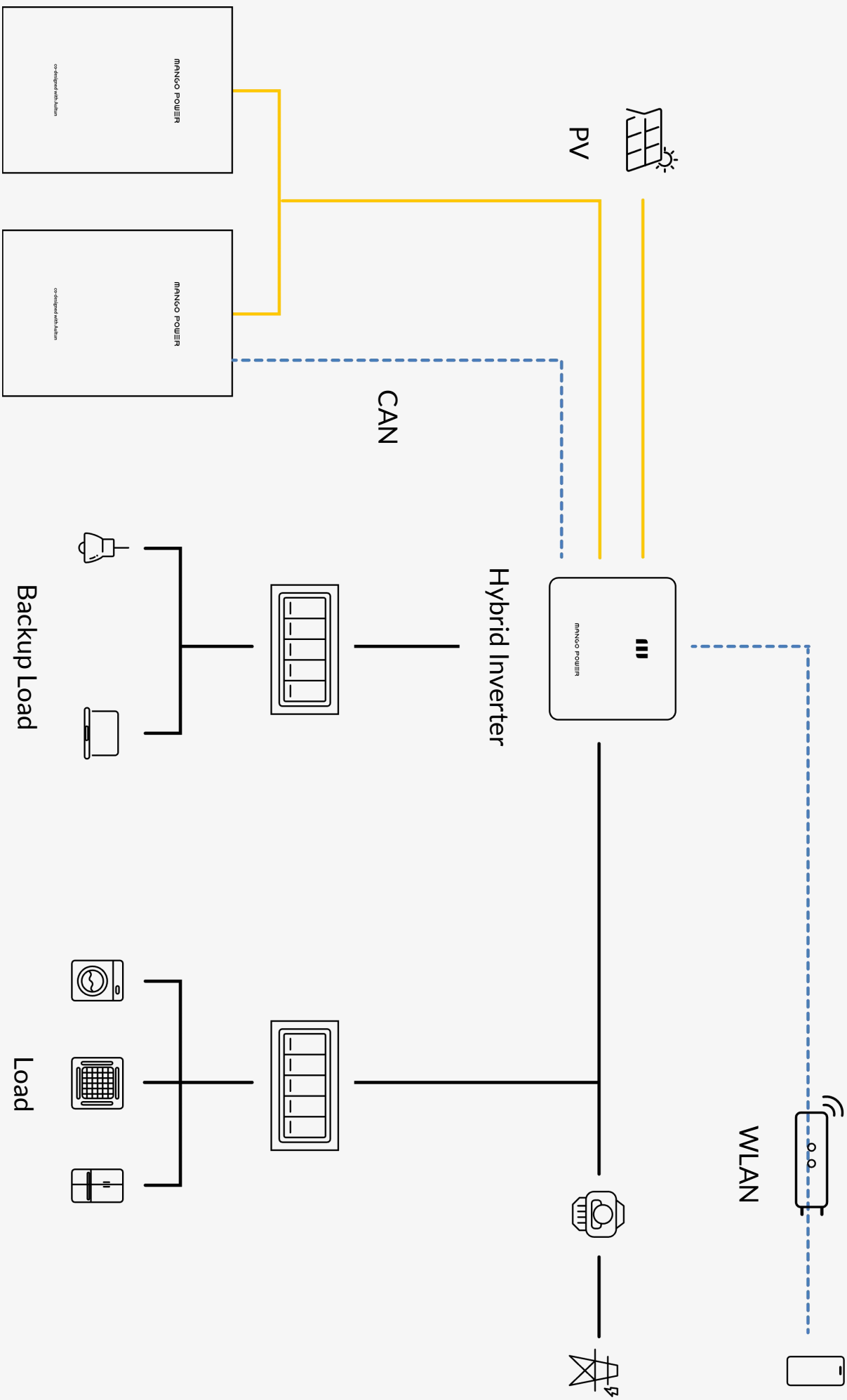
14.3 kWh Module Design  
28.6 kWh Max Scalability



<20 ms On/off-grid  
Switchover



IP65 Protection for outdoor  
<25dB Natural Cooling Noise



— DC — AC - - - - COMM

# Mango Power M Spec Sheet

Model: M Hybrid Inverter	5kW	6kW
<b>PV-input</b>		
Max input power	8000Wp	9000Wp
Min input voltage	80V	
Max input voltage	600V	
Starting voltage	95V	
MPPT Voltage range	80~550V	
Rated voltage	360V	
MPPT number/string	2/1	
MPPT Max input current	18A	
MPPT max short circuit current	22A	
<b>Battery-Charge/Discharge</b>		
Battery type	Lithium	
Voltage Range	42 to 58d.c.V	
Rated Voltage	51.2V	
Rated charging / discharging current	100A	
Max charging / discharging current	100A	
<b>AC(grid)-Output</b>		
Rated output power	5kVA	6kVA
Max output power of grid	5kVA	6kVA
Max output current	22.7A	27.2A
Voltage level	220V/230V/240V	
Voltage range of grid	184-276V	
Rated grid frequency	50Hz	
Power factor	~1(0.8speed-up-0.8lag)	
THDi(@rated power)	<3%	
<b>AC(off-grid)-Output</b>		
Rated output power	5kVA	6kVA
Max output power	5kVA	6kVA
Max output current	22.7A	27.2A
Rated output voltage	230V	
Rated output frequency	50Hz	
On/off grid switching time	<20ms	
<b>Efficiency</b>		
Efficiency in Europe	97.5%	
Maximum efficiency	98%	
Battery inverter maximum efficiency	95.2%	
<b>Protection</b>		
Insulation impedance testing	Integration	
Residual current monitoring	Integration	
Input reverse protection	Integration	
Anti islanding protection	Reactive power disturbance	
Overvoltage and overload protection	Integration	
AC short circuit protection	Integration	
AC overvoltage level	III	
Battery and PV overvoltage level	II	
Surge protection	Integration	
Lightning Protection	Integration	

General Parameters	
Installation method	Wall mounted
Size	500mm*470mm*180mm
Weight	21kg
Standby power loss	≤10W
Temperature range	-25°C~+60°C
Humidity range	0~100%
Noise	<25dB
Cooling method	Natural cooling
Protective Class	I
IP Grade	IP65
Topology	Non-Isolated
Warranty	10 Years
Monitoring	LED/APP/WIFI/4G/Bluetooth (Optional)
Communication port	RS485/CAN/DRED/Dry contact/Parallel
CE-LVD	IEC 62109-1, IEC 62109-2 EN 62109-1, EN 62109-2
CE-EMC	EN 61000-6-1, EN 61000-6-2 EN 61000-6-3, EN 61000-6-4
Grid	AS 4777.2

Model: M LFP Battery 280Ah	
<b>Performance</b>	
Nominal capacity	14.3kWh
Max continuous discharge rate	7.1kW
Rated DC charge/ discharge Power	5/7kW
Operating voltage range	44.8V~57.6V
Standard charge/ discharge current	100A/140A
Max charge / discharge current	100A/140A
<b>General Specification</b>	
Dimensions (W×D×H)	525mm*297mm*935mm
Weight	99kg
Depth of discharge	95%
Communication method	RS485/CAN/Ethernet (Remote Maintenance)
Cell/module configuration	LFP-280Ah
Protection class	IP66
Operating ambient temperature	Charge: 0~60°C Discharge: -20°C~60°C
Operating ambient humidity	5%~95% (No Condensation)
Operating altitude	< 2000m
Life cycle (25°C, 0.5C/0.5C @60%SOH)	≥8000
Warranty	10 Years
Certification	IEC62619, UN38.3, EN 61000-6-1, EN 61000-6-3

**Note:** The manufacturer of both the M Hybrid Inverter 6kW and the M LFP Battery 280Ah is Shenzhen Xihe Future Technology Co., Ltd, and they are manufactured in China.