



我们的实力认证

OUR STRENGTH CERTIFICATION



UN38.3



MSDS



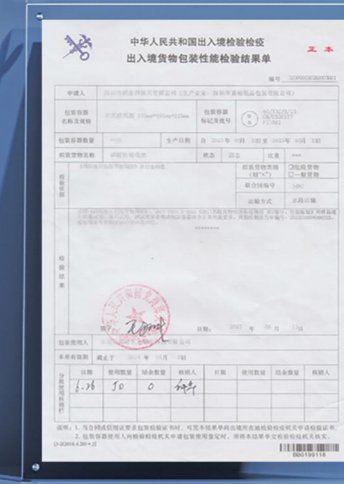
空运鉴定书
Air trans



海运鉴定书
Sea transportation



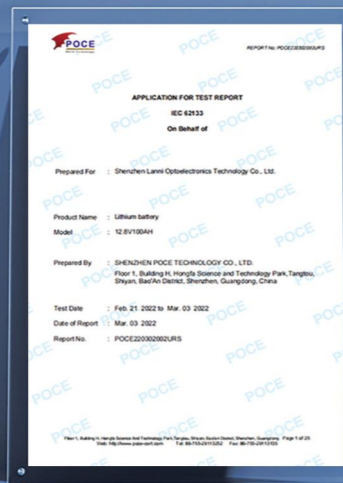
危包证
Dangerous package syndrome



性能单
Performance sheet



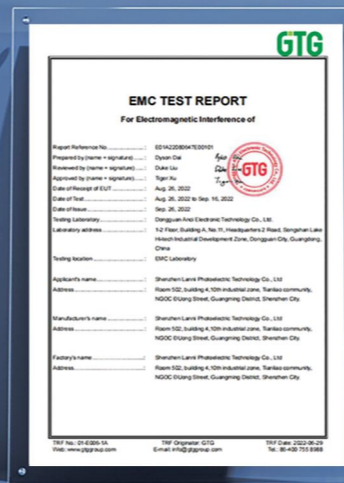
IEC62133证书
Certificate



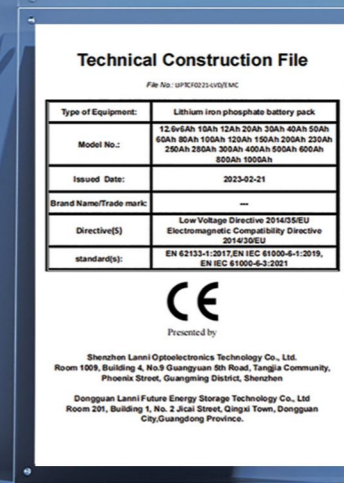
IEC 62133报告
Report



CEEMC
EN61000



EMC



CE



1.2M 跌落报告
1.2M Drop report

公司案例 Company Case



◆ 储能：家储供电系统

Military industry: UAV power supply system



型号/model: 51.2V200Ah

◆ 特斯拉

Tesla



型号/model: 51.2V200Ah

◆ 军工：无人机/无人船供电系统

Military Industry: Drone/unmanned ship power supply system



型号/model: ①72V120Ah ②96V120Ah ③110V120Ah
支持30C放电/support discharge at 30C

◆ 电力塔工程

Power tower engineering



型号/model: 12V300Ah 地区: 湖南省
Region: Hunan Province



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- 11 房车磷酸铁锂电池**
RV lifepo4 battery
- 12 货车启动磷酸铁锂电池**
Starting the truck with lifepo4 battery

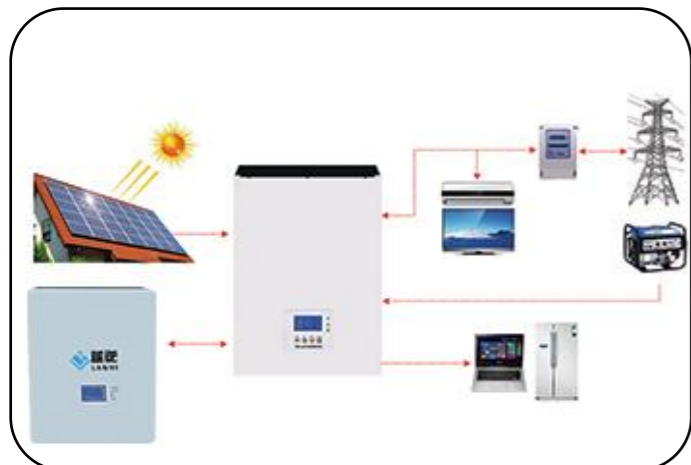
壁挂式储能锂电池

Wall mounted lithium energy storage battery



产品特性 Product characteristics

- ◆ 支持32台并联
- ◆ 支持485.232.CAN通讯, 兼容市场上大多品牌的逆变器
- ◆ 可以选按键屏或触摸屏, 添加多国语种, 有主动均衡功能
- ◆ Supports 32 parallel connections
- ◆ Supports 485.232 CAN communication and is compatible with most brands of inverters on the market
- ◆ You can choose button screen or touch screen, add multiple languages, and have active balancing function



产品参数 Product parameters

产品型号 Model	LFP24100-W	LFP24200-W	LFP48100-W	LFP48200-W
标称电压 Nominal voltage	25.6V	25.6V	51.2V	51.2V
标称容量 Nominal capacity	100Ah/2560Wh	200Ah/5120Wh	100Ah/5120Wh	200Ah/10240Wh
电芯类型 Cell type	磷酸铁锂(LiFePO ₄)			
组合方式 Composition	8S1P	8S1P	16S1P	16S1P
充电截止电压 Charging cutoff voltage	29.2V	29.2V	58.4V	58.4V
放电截止电压 Discharge Cut-off Voltage	20V	20V	40V	40V
最大持续放电电流 Maximum continuous discharge current	50A	200A	100A	200A
瞬间放电电流 Instantaneous discharge current	100A	400A	200A	400A
显示屏 display	LCD显示屏/触摸显示屏 LCD displayscreen/touch screen display screen			
标准充电电流 Standard charging current	<25A	<100A	<50A	<100A
标准放电电流 Standard discharge current	50A	200A	100A	200A
充电适合温度 Charge suitable temperature	0°C ~ 45°C			
放电适合温度 Discharge suitable temperature	-20°C ~ 65°C			
电池组尺寸 battery pack size	480*350*157mm	650*450*156mm	435*153*700mm	820*470*210mm
包装尺寸 Package size	560*420*235mm	740*535*250mm	535*235*800mm	940*560*316
电池组净重/毛重 battery pack N.W./G.W.	26.2Kg/28Kg	48.20kg/51.50kg	48.5kg /58.5kg	72.2KG/77.1KG
通讯接口 communication interface	CAN/RS232/RS485			
冷却/均衡方式 Cooling/balancing method	风冷/主动均衡 Air cooling/active balancing			

壁挂移动式储能锂电池

Wall mounted mobile energy storage lithium battery



产品特性 Product characteristics

- ◆ 支持32台并联
- ◆ 支持485.232.CAN通讯, 兼容市场上大多品牌的逆变器
- ◆ 可以选按键屏或触摸屏, 添加多国语种, 有主动均衡功能
- ◆ Supports 32 parallel connections
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- ◆ You can choose button screen or touch screen, add multiple languages, and have active balancing function



产品参数 Product parameters

产品型号 Model	LFP48150-W	LFP48200-W	LFP48230-W	LFP48300-W
标称电压 Nominal voltage	51.2V			
标称容量 Nominal capacity	150Ah/7680Wh	200Ah/10240Wh	230Ah/11776Wh	300Ah/15360Wh
电芯类型 Cell type	磷酸铁(LiFePO ₄)			
组合方式 Composition	16S1P	16S1P	16S1P	16S1P
充电截止电压 Charging cutoff voltage	58.4V			
放电截止电压 Discharge Cut-off Voltage	40V			
最大持续放电电流 Maximum continuous discharge current	100A	200A	200A	200A
瞬间放电电流 Instantaneous discharge current	200A	400A	400A	400A
显示屏 display	LCD显示屏/触摸显示屏 LCD displayscreen/touch screen display screen			
标准充电电流 Standard charging current	<50A	<100A	<100A	<100A
标准放电电流 Standard discharge current	100A	200A	200A	200A
充电适合温度 Charge suitable temperature	0°C ~ 45°C			
放电适合温度 Discharge suitable temperature	-20°C ~ 65°C			
电池组尺寸 battery pack size	470*205*653mm	500*250*650mm	500*250*650mm	770*532*262mm
包装尺寸 Package size	815*570*260mm	810*565*450mm	810*565*450mm	855*610*500mm
电池组净重/毛重 battery pack N.W./G.W.	69.13Kg/73.93Kg	89.36kg/104.36kg	93kg /110kg	113KG/122KG
通讯接口 communication interface	CAN/RS232/RS485			
冷却/均衡方式 Cooling/balancing method	风冷/主动均衡 Air cooling/active balancing			

移动式储能锂电池

Mobile energy storage lithium battery



产品特性 Product characteristics

- ◆ 支持32台并联
- ◆ 支持485.232.CAN通讯, 兼容市场上大多品牌的逆变器
- ◆ 可以选按键屏或触摸屏, 添加多国语种, 有主动均衡功能
- ◆ Supports 32 parallel connections
- ◆ Supports 485.232 CAN communication and is compatible with most brands of inverters on the market
- ◆ You can choose button screen or touch screen, add multiple languages, and have active balancing function



产品参数 Product parameters

产品型号 Model	LFP48300-M	LFP48400-M	LFP48460-M
标称电压 Nominal voltage	51.2V	51.2V	51.2V
标称容量 Nominal capacity	300Ah/15360Wh	400Ah/20480Wh	460Ah/23552Wh
电芯类型 Cell type	磷酸铁锂(LiFePO ₄)		
组合方式Composition	16S1P	16S2P	16S2P
充电截止电压Charging cutoff voltage	58.4V		
放电截止电压Discharge Cut-off Voltage	40V		
最大持续放电电流 Maximum continuous discharge current	200A	200A	200A
瞬间放电电流 Instantaneous discharge current	400A	400A	400A
显示屏 display	LCD显示屏/触摸显屏 LCD displayscreen/touch screen display screen		
标准充电电流 Standard charging current	<100A	<100A	<100A
标准放电电流 Standard discharge current	200A	200A	200A
充电适合温度 Charge suitable temperature	0°C ~ 45°C		
放电适合温度 Discharge suitable temperature	-20°C ~ 65°C		
电池组尺寸 battery pack size	480*451.2*726mm	607*480*723mm	607*480*723mm
包装尺寸 Package size	535*516*910mm	545*510*920mm	545*510*920mm
电池组净重/毛重 battery pack N.W./G.W.	124Kg/138Kg	178.47Kg/185.49kg	202.43kg/217.43kg
通讯接口 communication interface	CAN/RS232/RS485		
冷却/均衡方式 Cooling/balancing method	风冷/主动均衡 Air cooling/active balancing		

移动式储能锂电池

Mobile energy storage lithium battery



产品特性 Product characteristics

- ◆ 支持32台并联
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- ◆ Supports 485.232 CAN communication and is compatible with most brands of inverters on the market
- ◆ You can choose button screen or touch screen, add multiple languages, and have active balancing function

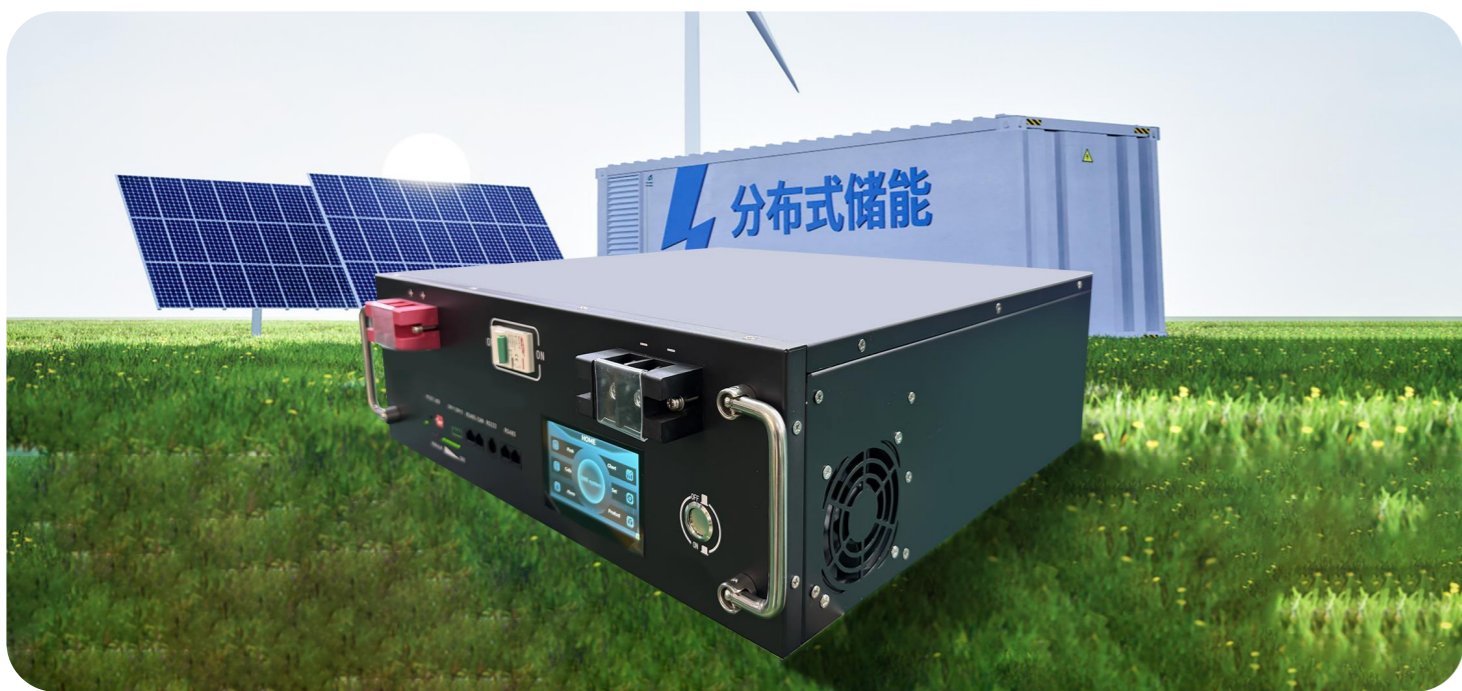


产品参数 Product parameters

产品型号 Model	LFP48200-M	LFP48230-M	LFP48300-M
标称电压 Nominal voltage	51.2V	51.2V	51.2V
标称容量 Nominal capacity	200Ah/5120Wh	230Ah/11776Wh	300Ah/15360Wh
电芯类型 Cell type	磷酸铁锂(LiFePO ₄)		
组合方式Composition	16S1P	16S1P	16S1P
充电截止电压Charging cutoff voltage	58.4V		
放电截止电压Discharge Cut-off Voltage	40V		
最大持续放电电流 Maximum continuous discharge current	200A	200A	200A
瞬间放电电流 Instantaneous discharge current	400A	400A	400A
显示屏 display	LCD显示屏/触摸显屏 LCD displayscreen/touch screen display screen		
标准充电电流 Standard charging current	<100A	<100A	<100A
标准放电电流 Standard discharge current	200A	200A	200A
充电适合温度 Charge suitable temperature	0°C ~ 45°C		
放电适合温度 Discharge suitable temperature	-20°C ~ 65°C		
电池组尺寸 battery pack size	550*300*870mm	550*300*870mm	300*800*690mm
包装尺寸 Package size	765*370*1050mm	765*370*1050mm	1045*760*392mm
电池组净重/毛重 battery pack N.W./G.W.	86Kg/94.5Kg	100Kg/118.3kg	125.2Kg/142.5Kg
通讯接口 communication interface	CAN/RS232/RS485		
冷却/均衡方式 Cooling/balancing method	风冷/主动均衡 Air cooling/active balancing		

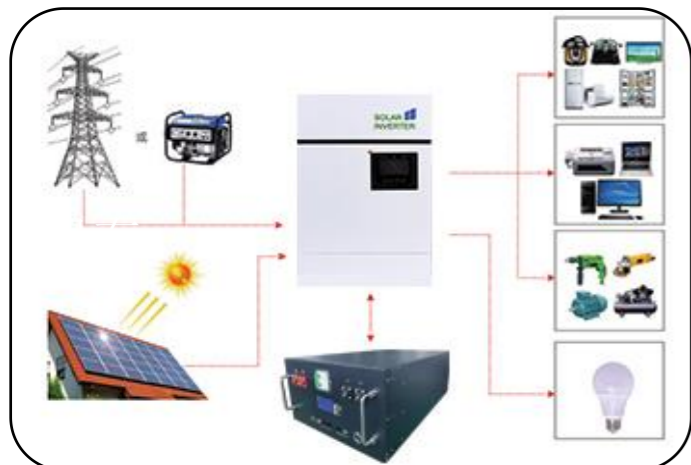
机架式储能锂电池

Rack mounted lithium energy storage battery



产品特性 Product characteristics

- ◆ 支持32台并联
- ◆ 支持485.232.CAN通讯, 兼容市场上大多品牌的逆变器
- ◆ 可以选按键屏或触摸屏, 添加多国语种, 有主动均衡功能
- ◆ Supports 32 parallel connections
- ◆ Supports 485.232 CAN communication and is compatible with most brands of inverters on the market
- ◆ You can choose button screen or touch screen, add multiple languages, and have active balancing function



产品参数 Product parameters

产品型号 Model	LFP4850-R	LFP48100-R	LFP48200-R	LFP48300-R
标称电压 Nominal voltage	51.2V			
标称容量 Nominal capacity	50Ah/2560Wh	100Ah/2560Wh	200Ah/5120Wh	300Ah/15360Wh
电芯类型 Cell type	磷酸铁(LiFePO ₄)			
组合方式 Composition	16S1P	16S1P	16S1P	16S1P
充电截止电压 Charging cutoff voltage	58.4V			
放电截止电压 Discharge Cut-off Voltage	40V			
最大持续放电电流 Maximum continuous discharge current	50A	100A	200A	200A
瞬间放电电流 Instantaneous discharge current	100A	200A	400A	400A
显示屏 display	LCD显示屏/触摸显示屏 LCD displayscreen/touch screen display screen			
标准充电电流 Standard charging current	<25A	<50A	<100A	<100A
标准放电电流 Standard discharge current	50A	100A	200A	200A
充电适合温度 Charge suitable temperature	0°C ~ 45°C			
放电适合温度 Discharge suitable temperature	-20°C ~ 65°C			
电池组尺寸 battery pack size	390*350*155mm	455*480*160mm	580*440*240mm	725*440*240mm
包装尺寸 Package size	405*260*320mm	555*545*270mm	705*525*345mm	782*540*380 mm
电池组净重/毛重 battery pack N.W./G.W.	11.55kg/12.36kg	43.2kg/45.6kg	82.55kg /86.46kg	125kg/145kg
通讯接口 communication interface	CAN/RS232/RS485			
冷却/均衡方式 Cooling/balancing method	风冷/主动均衡 Air cooling/active balancing			

堆叠式储能锂电池

Stacked lithium energy storage batteries



产品特性 Product characteristics

- ◆ 支持32台并联
- ◆ 支持485.232.CAN通讯, 兼容市场上大多品牌的逆变器
- ◆ 可以选按键屏或触摸屏, 添加多國小语种, 有主动均衡功能
- ◆ Supports 32 parallel connections
- ◆ Supports 485.232 CAN communication and is compatible with most brands of inverters on the market
- ◆ You can choose button screen or touch screen, add multiple languages, and have active balancing function

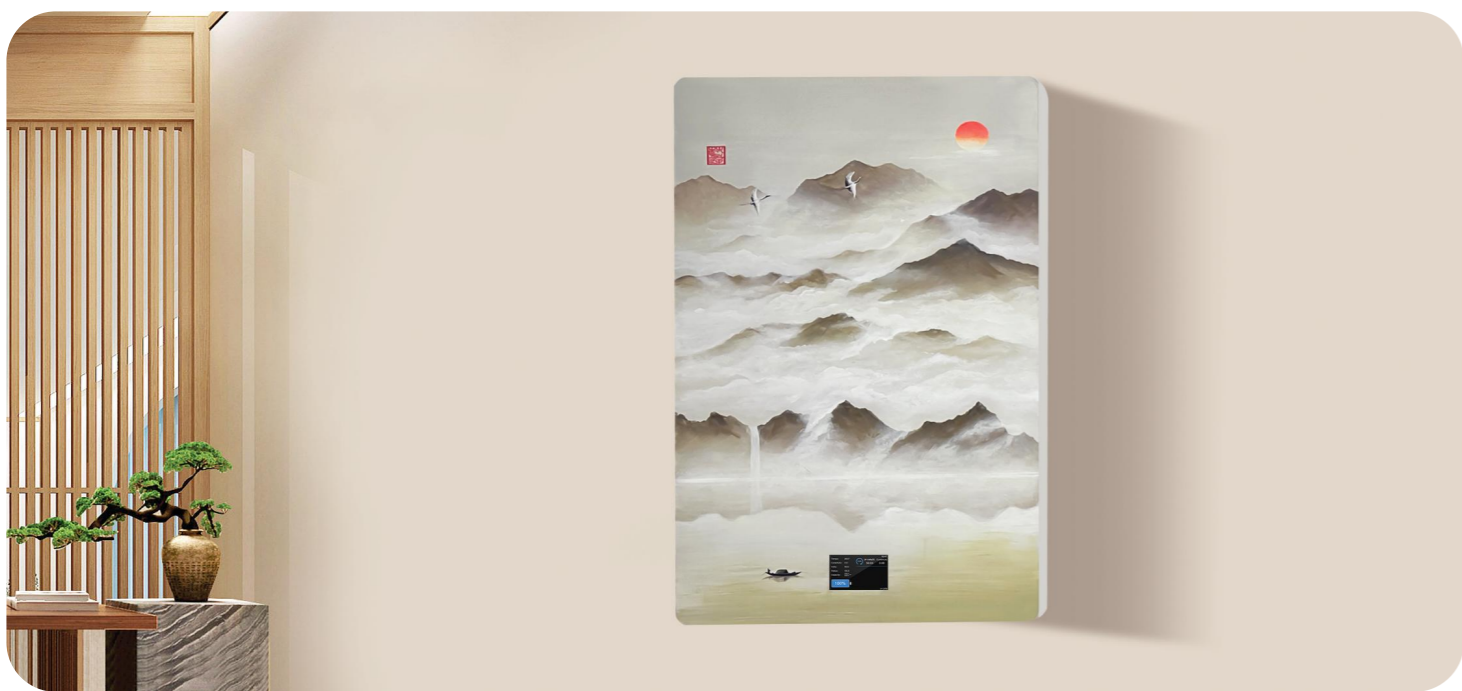


产品参数 Product parameters

产品型号 Model	LFP48400-S
标称电压 Nominal voltage	51.2V
标称容量 Nominal capacity	400Ah/20480Wh
电芯类型 Cell type	磷酸铁锂(LiFePO ₄)
组合方式 Composition	16S4P
充电截止电压 Charging cutoff voltage	58.4V
放电截止电压 Discharge Cut-off Voltage	40V
最大持续放电电流 Maximum continuous discharge current	200A
瞬间放电电流 Instantaneous discharge current	400A
显示屏 display	LCD显示屏/触摸显示屏 LCD displayscreen/touch screen display screen
标准充电电流 Standard charging current	<100A
标准放电电流 Standard discharge current	200A
充电适合温度 Charge suitable temperature	0°C ~ 45°C
放电适合温度 Discharge suitable temperature	-20°C ~ 65°C
电池组尺寸 battery pack size	585*550*840mm
包装尺寸 Package size	680*650*1050mm
电池组净重/毛重 battery pack N.W./G.W.	200Kg/215Kg
通讯接口 communication interface	CAN/RS232/RS485
冷却/均衡方式Cooling/balancing method	自然冷却/主动均衡 Natural cooling/active balancing

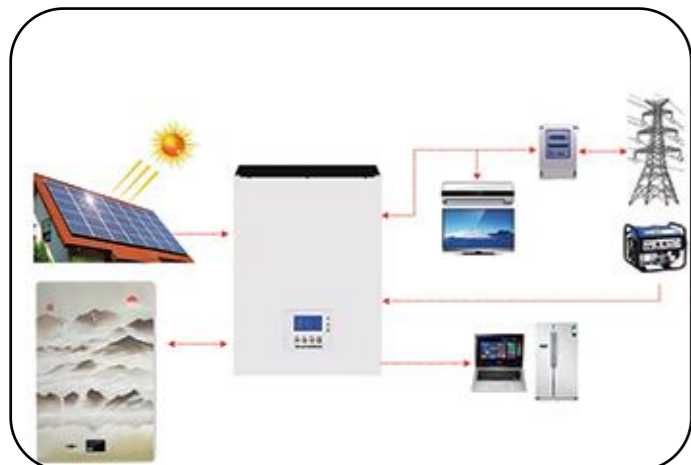
国风款壁挂式储能锂电池

National style wall mounted lithium energy storage battery



产品特性 Product characteristics

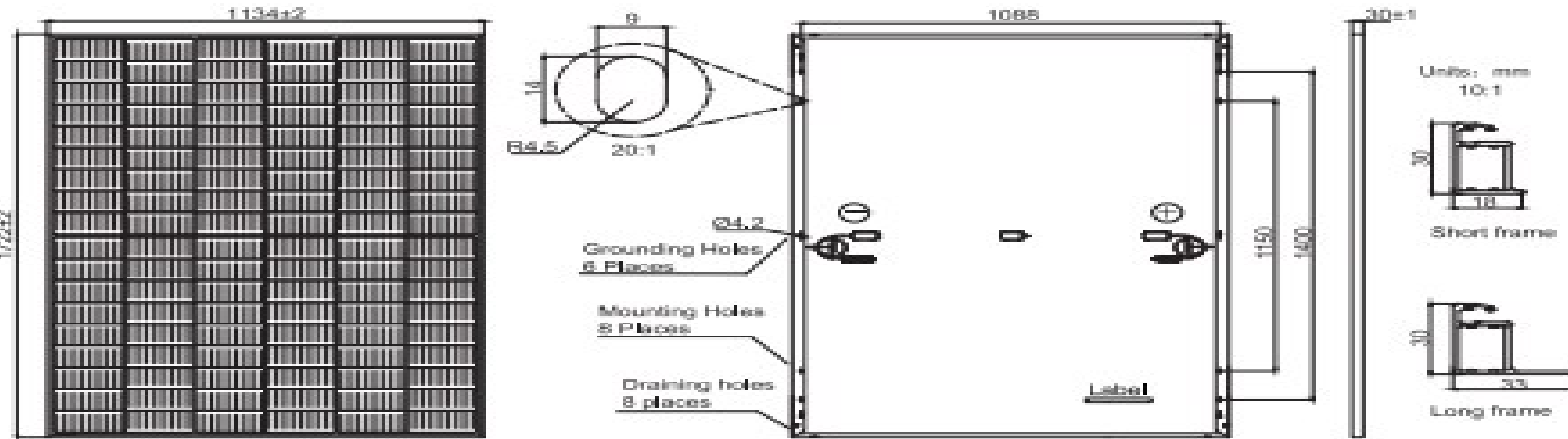
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- ◆ Supports 32 parallel connections
- ◆ Supports 485.232 CAN communication and is compatible with most brands of inverters on the market
- ◆ You can choose button screen or touch screen, add multiple languages, and have active balancing function



产品参数 Product parameters

产品型号 Model	LFP48145-W
标称电压 Nominal voltage	51.2V
标称容量 Nominal capacity	145Ah/7424Wh
电芯类型 Cell type	磷酸铁锂(LiFePO ₄)
组合方式 Composition	16S1P
充电截止电压 Charging cutoff voltage	58.4V
放电截止电压 Discharge Cut-off Voltage	40V
最大持续放电电流 Maximum continuous discharge current	100A
瞬间放电电流 Instantaneous discharge current	200A
显示屏 display	LCD显示屏/触摸显示屏 LCD displayscreen/touch screen display screen
标准充电电流 Standard charging current	<50A
标准放电电流 Standard discharge current	100A
充电适合温度 Charge suitable temperature	0°C ~ 45°C
放电适合温度 Discharge suitable temperature	-20°C ~ 65°C
电池组尺寸 battery pack size	830*50*1300mm
包装尺寸 Package size	930*150*1400mm
电池组净重/毛重 battery pack N.W./G.W.	67Kg/75Kg
通讯接口 communication interface	CAN/RS232/RS485
冷却/均衡方式Cooling/balancing method	自然冷却/主动均衡 Natural cooling/active balancing

MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	19.5kg
Dimensions	1722±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC) , 12 AWG(UL)
No. of cells	108(6x18)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 200mm(+)/300mm(-); 800mm(+)/900mm(-)(Leapfrog) Landscape: 1100mm(+)/1100mm(-)
Front Glass	2.8mm
Packaging Configuration	36pcs/Pallet 936pcs/40HQ Container

ELECTRICAL PARAMETERS AT STC

TYPE	M54S30 -400/GR	M54S30 -405/GR	M54S30 -410/GR	M54S30 -415/GR	M54S30 -420/GR	M54S30 -425/GR
Rated Maximum Power(P _{max}) [W]	400	405	410	415	420	425
Open Circuit Voltage(V _{oc}) [V]	37.07	37.23	37.32	37.45	37.58	37.72
Maximum Power Voltage(V _{mp}) [V]	31.01	31.21	31.45	31.61	31.80	31.98
Short Circuit Current(I _{sc}) [A]	13.79	13.87	13.95	14.02	14.10	14.18
Maximum Power Current(I _{mp}) [A]	12.90	12.98	13.04	13.13	13.21	13.29
Module Efficiency [%]	20.5	20.7	21.0	21.3	21.5	21.8
Power Tolerance	0~+5W					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.045%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.275%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.350%/°C					
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G					

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

ELECTRICAL PARAMETERS AT NOCT

TYPE	M54S30 -400/GR	M54S30 -405/GR	M54S30 -410/GR	M54S30 -415/GR	M54S30 -420/GR	M54S30 -425/GR
Rated Max Power(P _{max}) [W]	302	306	310	314	318	322
Open Circuit Voltage(V _{oc}) [V]	34.88	35.12	35.23	35.37	35.50	35.64
Max Power Voltage(V _{mp}) [V]	29.26	29.47	29.72	29.89	30.09	30.26
Short Circuit Current(I _{sc}) [A]	11.03	11.10	11.16	11.22	11.29	11.36
Max Power Current(I _{mp}) [A]	10.32	10.38	10.43	10.50	10.57	10.64
NOCT	Irradiance 800W/m ² , ambient temperature 20°C,wind speed 1m/s, AM1.5G					

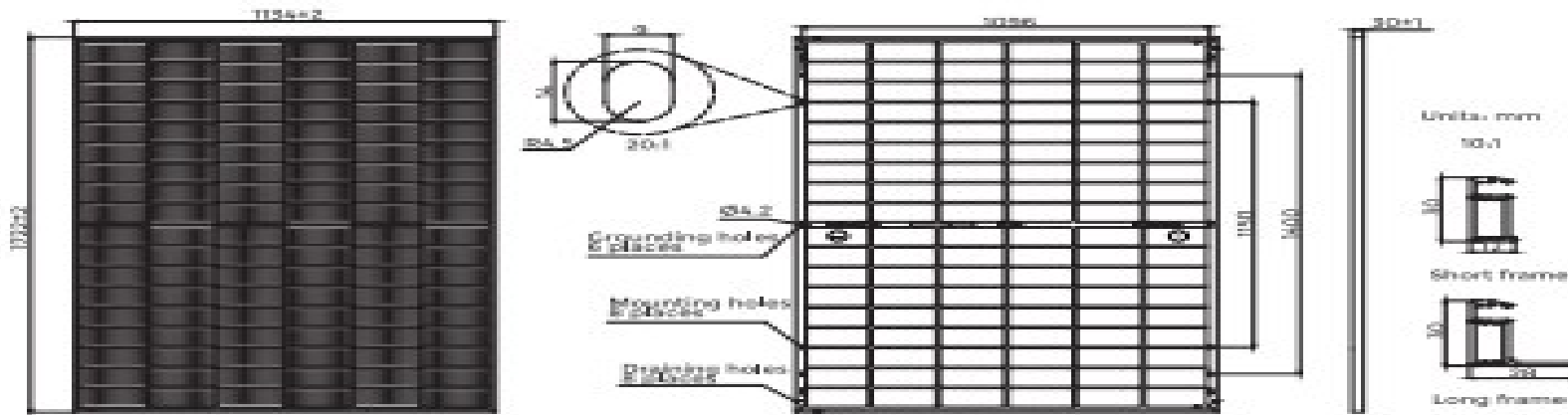
OPERATING CONDITIONS

Maximum System Voltage	1000V/1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	25A
Maximum Static Load,Front Maximum Static Load,Back	5400Pa(112lb/ft ²) 2400Pa(50lb/ft ²)
NOCT	45±2°C
Safety Class	Class II
Fire Performance	UL Type 1

445W

420-445
JAM54D40

MB
Series



Remark: customized frame color and cable length available upon request

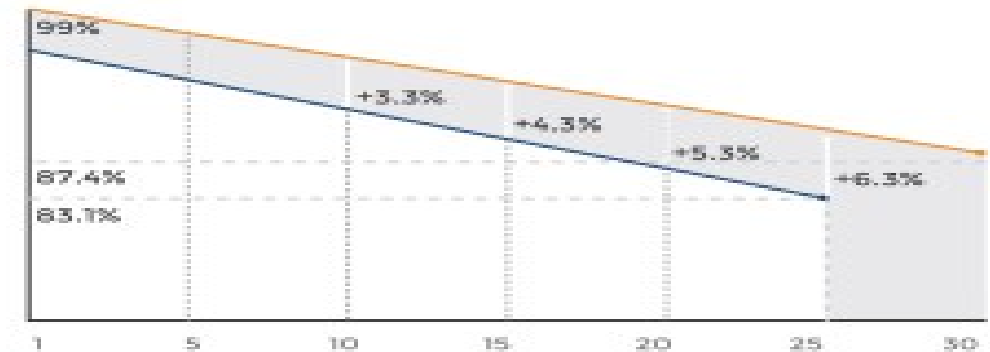
Cell	Mono
Weight	21.5kg
Dimensions	1722±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	108(6×18)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1200mm(+)/1200mm(-)
Front Glass/Back Glass	1.6mm/1.6mm
Packaging Configuration	36pcs/Pallet, 936pcs/40HQ Container

ELECTRICAL PARAMETERS AT STC

TYPE	M54D40 -420/MB	M54D40 -425/MB	M54D40 -430/MB	M54D40 -435/MB	M54D40 -440/MB	M54D40 -445/MB
Rated Maximum Power(Pmax) [W]	420	425	430	435	440	445
Open Circuit Voltage(Voc) [V]	38.28	38.56	38.84	39.11	39.38	39.65
Maximum Power Voltage(Vmp) [V]	32.38	32.64	32.88	33.13	33.37	33.64
Short Circuit Current(Isc) [A]	13.65	13.70	13.75	13.80	13.85	13.90
Maximum Power Current(Imp) [A]	12.97	13.02	13.08	13.13	13.18	13.23
Module Efficiency [%]	21.5	21.8	22.0	22.3	22.5	22.8
Power Tolerance	0~+3%					
Temperature Coefficient of Isc(α _{Isc})	+0.046%/°C					
Temperature Coefficient of Voc(β _{Voc})	-0.260%/°C					
Temperature Coefficient of Pmax(γ _{Pmp})	-0.290%/°C					
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G					

Superior Warranty

1% 1st-year Degradation
0.4% Annual Degradation Over 30 years



- n-type Bifacial Double Glass Module Linear Performance Warranty
- Standard Module Linear Performance Warranty

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM54D40 -420/MB	JAM54D40 -425/MB	JAM54D40 -430/MB	JAM54D40 -435/MB	JAM54D40 -440/MB	JAM54D40 -445/MB
Rated Max Power(Pmax) [W]	454	459	464	470	475	481
Open Circuit Voltage(Voc) [V]	38.28	38.56	38.84	39.11	39.38	39.65
Max Power Voltage(Vmp) [V]	32.38	32.64	32.88	33.13	33.37	33.64
Short Circuit Current(Isc) [A]	14.74	14.80	14.85	14.90	14.96	15.01
Max Power Current(Imp) [A]	14.01	14.06	14.12	14.18	14.24	14.29
Irradiation Ratio (rear/front)	10%					

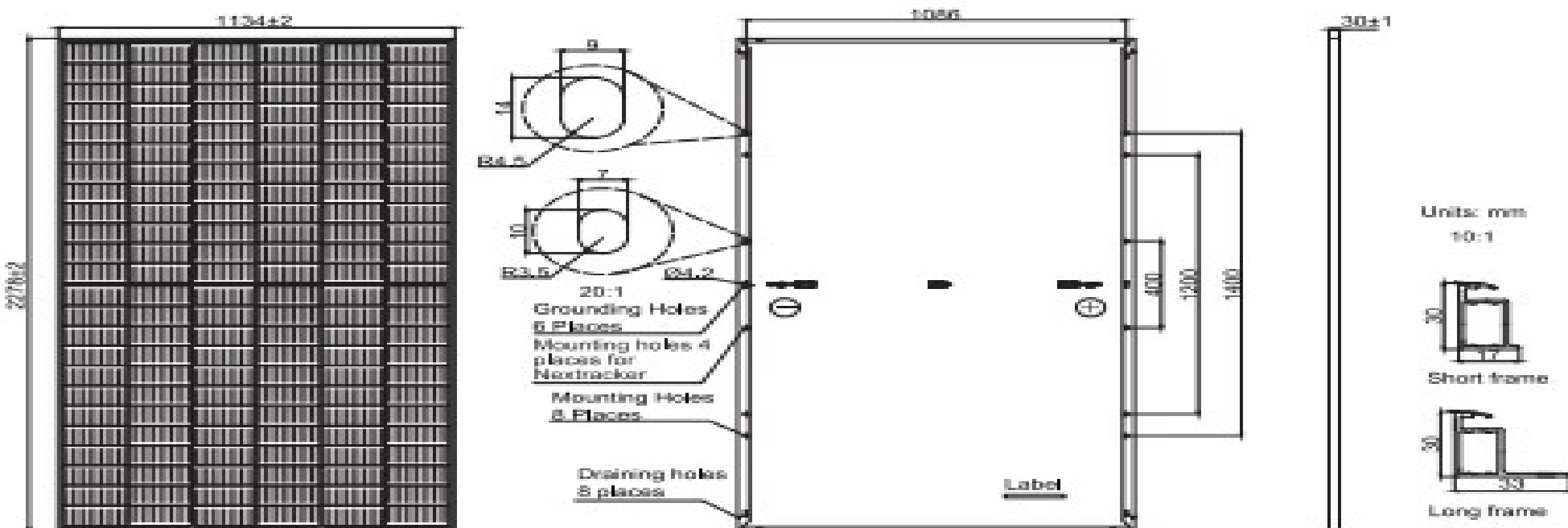
*Bifaciality=Pmax_{rear}/Rated Pmax_{front}

OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse Rating	30A
Maximum Static Load,Front	5400Pa(112 lb/ft ²)
Maximum Static Load,Back	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Bifaciality*	80%±10%
Fire Performance	UL Type 3B

CHARACTERISTICS

MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	27.3kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC) , 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 200mm(+)/300mm(-); 800mm(+)/800mm(-)(Leapfrog) Landscape: 1300mm(+)/1300mm(-)
Packaging Configuration	36pcs/Pallet 720pcs/40HQ Container

ELECTRICAL PARAMETERS AT STC

TYPE	M72S30 -540/GR	M72S30 -545/GR	M72S30 -550/GR	M72S30 -555/GR	M72S30 -560/GR	M72S30 -565/GR
Rated Maximum Power(P _{max}) [W]	540	545	550	555	560	565
Open Circuit Voltage(V _{oc}) [V]	49.60	49.75	49.90	50.02	50.15	50.28
Maximum Power Voltage(V _{mp}) [V]	41.64	41.80	41.96	42.11	42.27	42.42
Short Circuit Current(I _{sc}) [A]	13.86	13.93	14.00	14.07	14.14	14.21
Maximum Power Current(I _{mp}) [A]	12.97	13.04	13.11	13.18	13.25	13.32
Module Efficiency [%]	20.9	21.1	21.3	21.5	21.7	21.9
Power Tolerance	0~+5W					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.045%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.275%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.350%/°C					
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G					

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

ELECTRICAL PARAMETERS AT NOCT

TYPE	M72S30 -540/GR	M72S30 -545/GR	M72S30 -550/GR	M72S30 -555/GR	M72S30 -560/GR	M72S30 -565/GR
Rated Max Power(P _{max}) [W]	408	412	416	420	424	428
Open Circuit Voltage(V _{oc}) [V]	46.43	46.55	46.68	46.85	46.99	47.15
Max Power Voltage(V _{mp}) [V]	38.99	39.20	39.43	39.66	39.85	40.04
Short Circuit Current(I _{sc}) [A]	11.09	11.13	11.17	11.21	11.26	11.31
Max Power Current(I _{mp}) [A]	10.47	10.51	10.55	10.59	10.64	10.69
NOCT	Irradiance 800W/m ² , ambient temperature 20°C,wind speed 1m/s, AM1.5G					

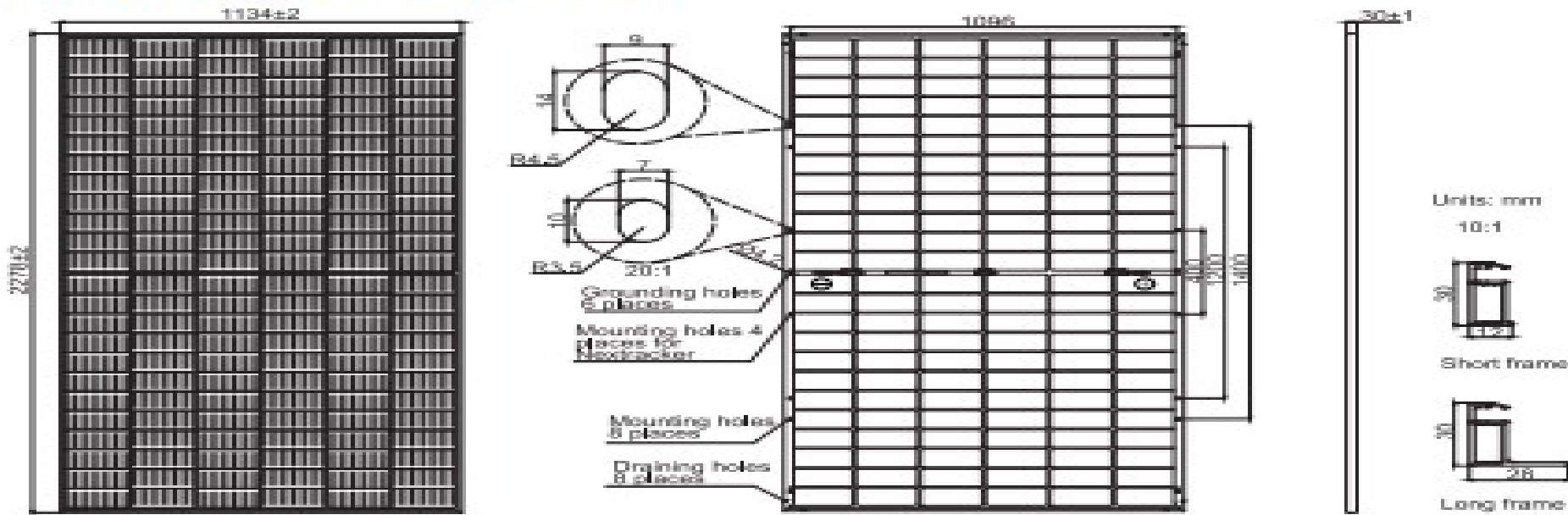
OPERATING CONDITIONS

Maximum System Voltage	1000V/1500V DC
Operating Temperature	-40 C ~+85 C
Maximum Series Fuse Rating	25A
Maximum Static Load,Front*	5400Pa(112lb/ft ²)
Maximum Static Load,Back*	2400Pa(50lb/ft ²)
NOCT	45±2 C
Safety Class	Class II
Fire Performance	UL Type 1

*For NextTracker installations, maximum static load please take compatibility approve letter between JA Solar and NextTracker for reference.

CHARACTERISTICS

MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	31.8kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 200mm(+)/300mm(-); 800mm(+)/800mm(-)(Leapfrog) Landscape: 1300mm(+)/1300mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet 720pcs/40HQ Container

ELECTRICAL PARAMETERS AT STC

TYPE	M72D30 -540/GB	M72D30 -545/GB	M72D30 -550/GB	M72D30 -555/GB	M72D30 -560/GB	M72D30 -565/GB
Rated Maximum Power(P _{max}) [W]	540	545	550	555	560	565
Open Circuit Voltage(V _{oc}) [V]	49.60	49.75	49.90	50.02	50.15	50.28
Maximum Power Voltage(V _{mp}) [V]	41.64	41.80	41.96	42.11	42.27	42.42
Short Circuit Current(I _{sc}) [A]	13.86	13.93	14.00	14.07	14.14	14.21
Maximum Power Current(I _{mp}) [A]	12.97	13.04	13.11	13.18	13.25	13.32
Module Efficiency [%]	20.9	21.1	21.3	21.5	21.7	21.9
Power Tolerance						0~+5W
Temperature Coefficient of I _{sc} (α _{Isc})						+0.045%/°C
Temperature Coefficient of V _{oc} (β _{Voc})						-0.275%/°C
Temperature Coefficient of P _{max} (γ _{Pmp})						-0.350%/°C
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G					

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

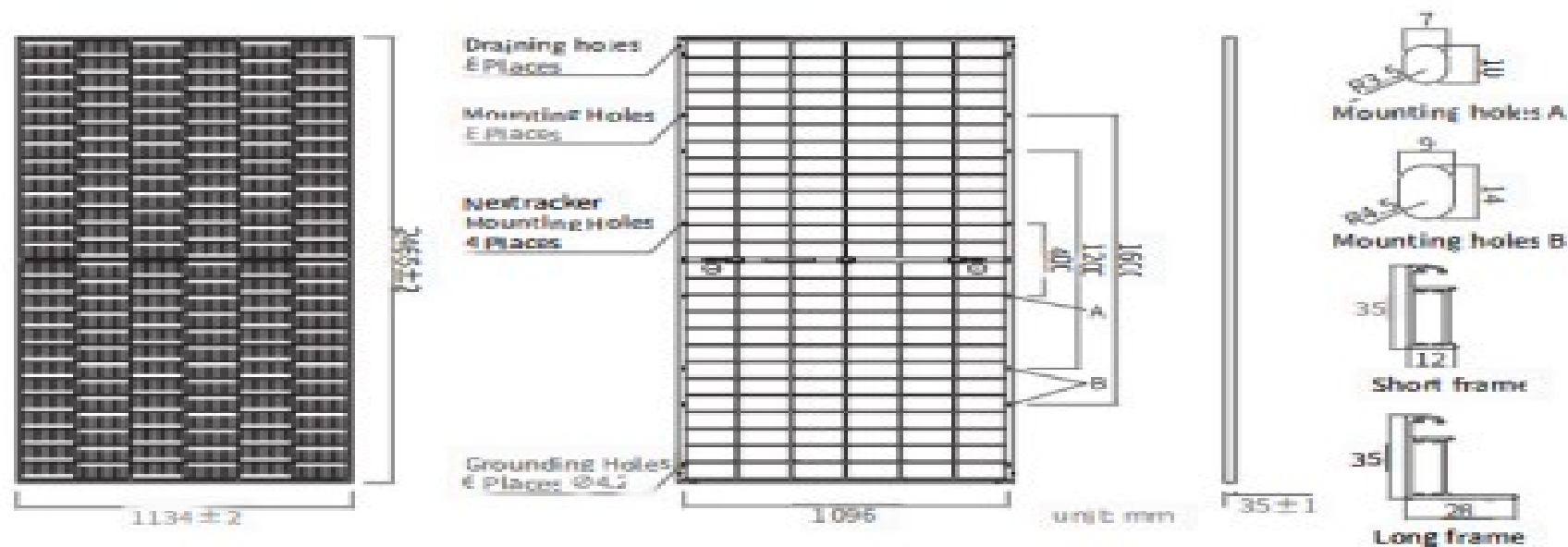
TYPE	M72D30 -540/GB	M72D30 -545/GB	M72D30 -550/GB	M72D30 -555/GB	M72D30 -560/GB	M72D30 -565/GB
Rated Max Power(P _{max}) [W]	578	583	589	594	599	605
Open Circuit Voltage(V _{oc}) [V]	49.93	50.03	50.21	50.31	50.45	50.55
Max Power Voltage(V _{mp}) [V]	41.65	41.78	41.95	42.11	42.26	42.42
Short Circuit Current(I _{sc}) [A]	14.83	14.91	14.98	15.05	15.13	15.20
Max Power Current(I _{mp}) [A]	13.88	13.95	14.03	14.10	14.18	14.25
Irradiation Ratio(rear/front)	10%					

OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Maximum Static Load,Front*	5400Pa(112 lb/ft ²)
Maximum Static Load,Back*	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Bifaciality**	70%±10%
Fire Performance	UL Type 29

*For NextTracker installations maximum static load please take compatibility approve letter between JJA Solar and NextTracker for reference.

**Bifaciality=P_{max,rear}/Rated P_{max,front}



MECHANICAL PARAMETERS

Cell	Mono
Weight	34.6kg
Dimensions	2465±2mm × 1134±2mm × 35±1mm
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
No. of cells	156(6 × 26)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1500mm(+)/1500mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	31 pcs/Pallet, 496 pcs/40HQ Container
Remark: customized frame color and cable length available upon request	

ELECTRICAL PARAMETERS AT STC

TYPE	M78D40 615/MB	M78D40 620/MB	M78D40 625/MB	M78D40 630/MB	M78D40 635/MB	M78D40 640/MB
Rated Maximum Power(P _{max}) [W]	615	620	625	630	635	640
Open Circuit Voltage (V _{oc}) [V]	55.79	55.99	56.18	56.38	56.57	56.76
Maximum Power Voltage(V _{mp}) [V]	47.24	47.43	47.61	47.80	47.98	48.16
Short Circuit Current(I _{sc}) [A]	13.69	13.74	13.79	13.84	13.89	13.94
Maximum Power Current(I _{mp}) [A]	13.02	13.07	13.13	13.18	13.23	13.29
Module Efficiency [%]	22.0	22.2	22.4	22.5	22.7	22.9
Power Tolerance	0~+3%					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.046%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.260%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.290%/°C					
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM 1.5G					

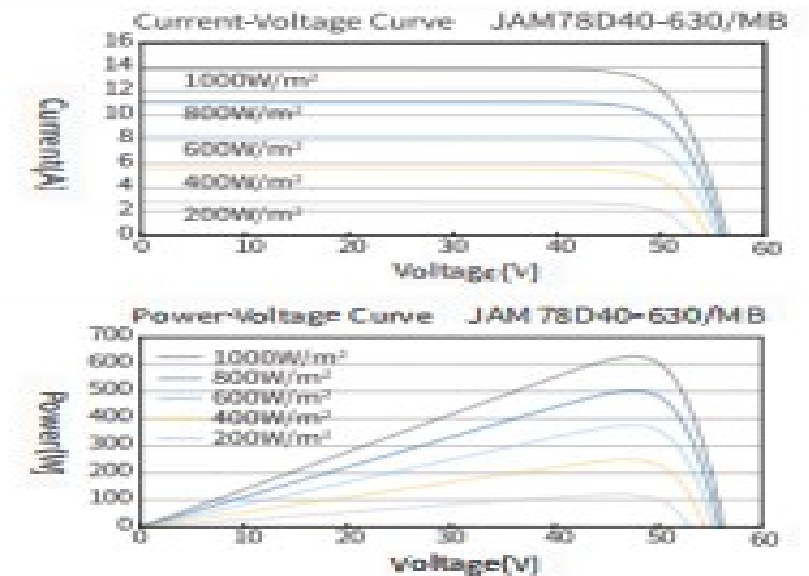
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	M78D40 615/MB	M78D40 620/MB	M78D40 625/MB	M78D40 630/MB	M78D40 635/MB	M78D40 640/MB
Rated Max Power (P _{max}) [W]	664	670	675	680	686	691
Open Circuit Voltage (V _{oc}) [V]	55.79	55.99	56.18	56.38	56.57	56.76
Max Power Voltage (V _{mp}) [V]	47.24	47.43	47.61	47.80	47.98	48.16
Short Circuit Current (I _{sc}) [A]	14.79	14.84	14.89	14.95	15.00	15.06
Max Power Current (I _{mp}) [A]	14.06	14.12	14.18	14.24	14.29	14.35
Irradiation Ratio (rear/front)	10%					

* For Nextacker installations maximum static load please take compatibility approve letter between JA Solar and Nextacker for reference.
** Bifaciality = P_{max, rear} / Rated P_{max, front}

CHARACTERISTICS



OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse Rating	30A
Maximum Static Load, Front*	5400Pa (112 lb/ft ²)
Maximum Static Load, Back*	2400Pa (50 lb/ft ²)
NOCT	45 ± 2°C
Bifaciality**	80% ± 10%
Fire Performance	UL Type 29

GD系列

GD Series



太阳能逆变器GD系列精致版 SOLAR INVERTER GD SERIES 1200W~2400W

应用范围 Application



产品特性 Features

-  空载损耗小，低于同功率高频机的一半
Low no-load loss, lower than high-frequency machines with the same power rate
-  纯正弦波输出，可适应不同负载
Pure sine wave output, suitable for different loads
-  根据用户需要，可以调节多项参数
Multiple parameters can be adjusted according to user needs
-  轻薄机身，方便安装，方便运输
Slim Body, Convenient Installation And Transportation
-  无熔丝开关电池防反接功能：安装更安全
Battery Reverse Connection Protection with Fuse Switch, Safer Installation
-  可选择带PWM太阳能控制器
Optional solar controller with PWM
-  输出电压精度高，呵护您的电器
High Precision of Output Voltage, Take Care of Your Appliances
-  不带通讯
Without communication

型号 Model		GDI512EMH	GD2024EMH	GD3024EMH
输入 AC Input voltage	额定输入电压 AC Input	220VAC (标准) / 110VAC (定制)		
	电压范围 Input Voltage Range	90-280VAC±3V (正常模式 Normal Mode) 170-280VAC±3V (UPS模式 UPS Mode)		
	输入频率 Input Frequency	50/60Hz±5%		
输出 Output	输出额定功率 Rated Power	1200W	1600W	3000W
	市电下输出电压 Output Voltage	市电下的输出电压跟输入电压一样 The output voltage under mains power is the same as the input voltage		
	市电下输出频率 Output Frequency	市电下的输出频率跟输入频率一样 The output frequency under mains power is the same as the input frequency		
	逆变下输出电压 Output Voltage	220VAC±10% (110VAC±10%)		
	逆变下输出频率 Output Frequency	50HZ或60HZ±1%		
	逆变下输出波形 Output Wave	纯正弦波 Pure Sine Wave		
电池 Battery	电池类型 Battery Type	外接铅酸电池, 胶体电池, 水电池或者锂电池 External lead-acid battery, Gel battery, water battery or Lithium battery		
	额定电压 Rated Voltage	12VDC	24VDC	24VDC
	充电电压 Constant Charging Voltage (Adjustable)	14.1VDC	28.2VDC	28.2VDC
充电器 Charger	最大光伏阵列功率 Maximum Photovoltaic Array Power	1000W	2000W	3000W
	PV输入电压范围 (MPPT) PV Input Voltage Range	30-450VDC	30V-450VDC	40V-500VDC
	最大光伏阵列开路电压 MAX PV Input Voltage	400VDC	400VDC	500VDC
	最佳Vmp工作范围 Best VMP Working Range	300-400VDC	300-400VDC	300-400VDC
	最大PV充电电流 MAX PV Charge Current	60A	60A	100A
	最大市电充电电流 MAX AC Charge Current	60A	60A	60A
	转换时间 Transfer Time	≤10ms (UPS模式) / ≤20ms (INV模式)		
	负载峰值比 Peak Load Ratio	(MAX) 3:1		
	待机功耗 (W) Standby Power	环牛变压器		
		8W	16W	
保护 Protect	市电下 AC	市电下: 输入过流无熔丝开关保护 Input overcurrent without fuse switch protection		
	逆变下 Inversion	逆变下: 过载保护、短路保护、低压保护、电池反接保护 (保险管) overload, short circuit, low voltage, battery reverse connection protection (fuse)		
显示 Display	显示屏 Display Screen	彩色段码屏 Color segment code screen		
	翻页 Flipping Pages	可显示运行模式/负载/输入/输出等 Can display operating mode/load/input/output		
	LED	LED灯显示市电、充电状态、逆变状态、故障状态 LED lights display mains power, charging status, inverter status, and fault status		
环境参数 Ambient Temperature	运行环境温度 Operating Temperature	-10°C~50°C		
	储存温度 Storage Temperature	-10°C~60°C		
	声音提示 Sound On	蜂鸣器根据故障代码不同, 报警声音不同, 用长短音区分 The alarm sound of the buzzer varies depending on the fault code		
	运行环境湿度 Operating Environment Humidity	20%~90%无凝露 Non Condensing		
	噪音 Noise	≤ 50dB		
物理参数 Dimension	深*宽*高 L*W*H (mm)	345*254*105mm		

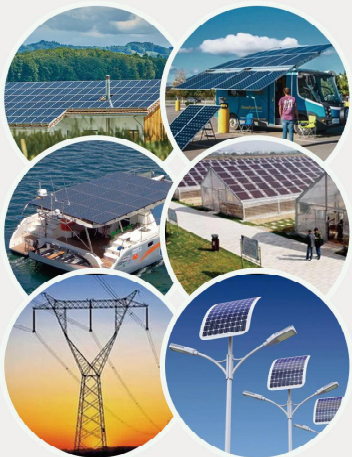
GD系列

GD Series



太阳能逆变器GD系列 SOLAR INVERTER GD SERIES 3000W~11000W

应用范围 Application



产品特性 Features

-  **锂电自启, 更好匹配锂电充电**
Lithium Battery Auto-restart Function, More Convenient for Lithium Battery Charging
-  **智能供电模式, 智能分配太阳能板/市电/电池的电能占比**
Intelligent Power Supply Mode, Intelligent Distribution of Solar Panel/Mains/Battery Power Shares
-  **市电充电电压/PV充电电压智能可调, 精准匹配各种电池充电要求**
Utility Charging Voltage/PV Charging Voltage Adjustable, Match Different Battery Charging Requirements
-  **方便安装, 方便运输**
Convenient Installation And Transportation
-  **无熔丝开关电池防反接功能: 安装更安全**
Battery Reverse Connection Protection with Fuse Switch, Safer Installation
-  **1.0 PF, 高效逆变, 低损耗节能/环保/省电/省钱**
PF1.0, High Efficiency, Lower Consumption, Energy Conservation/Environmental Protection/Electricity Saving/Cost Saving
-  **支持不带电池工作: 降低系统成本**
Support Working without Battery: Reduce Solar System Cost
-  **可以外接wifi, 数据实时监控**
Communication Option: External WiFi, Supervise at Any Time
-  **输出电压精度高, ±5%呵护您的电器**
High Precision of Output Voltage, ±5%, Take Care of Your Appliances

型号 Model		GD3074.1MH	GD3674.1MH	GD5548.1MH	GD6248.1MH	GD11048MH
输入 Input voltage	输入制式 Input Formation	L+N+PE				
	额定输入电压 AC Input	220/230/240VAC				
	电压范围 Input Voltage Range	90-280VAC±3V (正常模式 Normal Mode) 170-280VAC±3V (UPS模式 UPS Mode)				
	频率范围 Frequency	50/60Hz (自适应 Adaptive)				
输出 Output	输出额定功率 Rated Power	3000W	3600W	5500W	6200W	11000W
	输出电压 Output Voltage	220/230/240VAC±5%				
	输出频率 Output Frequency	50/60Hz±0.1%				
	波形 Output Wave	纯正弦波 Pure Sine Wave				
	切换时间 (可设) Transfer Time (Adjustable)	计算机设备 10ms, 家用电器 20ms 10ms for Computer Equipment, 20ms for Household Equipment				
	峰值功率 Peak Power	6000VA	7200VA	10000VA	12400VA	22000VA
	过载能力 Overload Ability	电池模式 Battery Mode: 21s@105%-150% Load 400ms@>200% Load				
	额定电压 Rated Voltage	24VDC		48VDC		
电池 Battery	恒压充电电压 (可设) Constant Charging Voltage (Adjustable)	28.2VDC		56.4VDC		
	浮充充电电压 (可设) Float Charging Voltage (Adjustable)	27VDC		54VDC		
	PV充电方式 PV Charging Method	MPPT			MPPT*2	
充电器 Charger	PV最大输入功率 Max PV Input	4200W		5500W	6200W	2x5500W
	追踪范围 MPPT Tracking Range	120-500VDC		120-500VDC	120-500VDC	90-500VDC
	最佳Vmp工作范围 Best VMP Working Range	300-400VDC		300-400VDC	300-400VDC	300-400VDC
	最大PV输入电压 MAX PV Input Voltage	500VDC		500VDC	500VDC	500VDC
	最大PV输入电流 MAX PV Input Current	18A				
	最大PV充电电流 MAX PV Charge Current	100A	100A	100A	100A	150A
	最大市电充电电流 MAX AC Charge Current	60A	80A	60A	80A	150A
最大充电电流 MAX Charge Current	100A	120A	100A	120A	150A	
显示 Display	LCD	可显示运行模式/负载/输入/输出等 Can display operating mode/load/input/output				
接口 Interface	RS232	5PIN/Pitch 2.54mm, 波特率 Baud Rate 2400				
	扩展插槽通讯接口 Expansion Slot Communication Interface	2x5PIN/Pitch 2.54mm, 锂电池 BMS 通信卡、WiFi卡、干接点卡等 Lithium Battery BMS Communication Card, WiFi 2x4PIN/Pitch 2.54mm				
环境参数 Ambient Temperature	运行环境温度 Operating Temperature	-10°C~50°C				
	储存温度 Storage Temperature	-15°C~60°C				
	海拔高度 Ork Altitude	海拔高度不应超过1000m, 1000m以上降额, 最高4000m, 参考IEC62040 No more than 1000m, if 1000m<, Rate power will lower, MAX 4000m, Refer to IEC62040				
	运行环境湿度 Operating Environment Humidity	20%~95%无凝露 Non Condensing				
	噪音 Noise	≤50db				
物理参数 Dimension	深*宽*高 L*W*H (mm)	495*312*146mm				570*500*148mm
标准和认证 Standards and Certifications		EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1				

GD系列

GD Series



太阳能逆变器GD系列并机版B SOLAR INVERTER GD SERIES 5500W~11000W

应用范围 Application



产品特性 Features

-  锂电自启, 更好匹配锂电充电
Lithium Battery Auto-restart Function, More Convenient for Lithium Battery Charging
-  智能供电模式, 智能分配太阳能板/市电/电池的电能占比
Intelligent Power Supply Mode, Intelligent Distribution of Solar Panel/Mains/Battery Power Shares
-  市电充电电压/PV充电电压智能可调, 精准匹配各种电池充电要求
Utility Charging Voltage/PV Charging Voltage Adjustable, Match Different Battery Charging Requirements
-  方便安装, 方便运输
Convenient Installation And Transportation
-  无熔丝开关电池防反接功能: 安装更安全
Battery Reverse Connection Protection with Fuse Switch, Safer Installation
-  1.0 PF, 高效逆变, 低损耗节能/环保/省电/省钱
PF1.0, High Efficiency, Lower Consumption, Energy Conservation/Environmental Protection/Electricity Saving/Cost Saving
-  支持不带电池工作: 降低系统成本
Support Working without Battery: Reduce Solar System Cost
-  最多可以并机九台, 支持更大容量的负载, 扩容简单
Parallel Function Up to Maximum 9 Units: Enlarge More Loads
-  锂电池BMS协议
BMS function for lithium battery
-  可以外接wifi, 数据实时监控
Communication Option: External WiFi, Supervise at Any Time

型号 Model	GD5548JMHB	GD6248JMHB	GD8648MHB	GD11048MHB	
输入 Input voltage	输入制式 Input Formation: L+N+PE				
	额定输入电压 AC Input: 220/230/240VAC				
	电压范围 Input Voltage Range: 90-280VAC±3V (正常模式 Normal Mode) 170-280VAC±3V (UPS模式 UPS Mode)				
	频率范围 Frequency: 50/60Hz (自适应 Adaptive)				
输出 Output	输出额定功率 Rated Power	5500W	6200W	8600W	11000W
	输出电压 Output Voltage	220/230/240VAC±5%			
	输出频率 Output Frequency	50/60Hz±0.1%			
	波形 Output Wave	纯正弦波 Pure Sine Wave			
	切换时间 (可设) Transfer Time (Adjustable)	计算机设备 10ms, 家用电器 20ms 10ms for Computer Equipment, 20ms for Household Equipment			
	峰值功率 Peak Power	11000VA	12400VA	17200VA	22000W
	过载能力 Overload Ability	电池模式 Battery Mode: 21s@105%-150% Load 11s@150%-200% Load 400ms@>200% Load			
并网运行 Grid connected Operation	输出电压 Output Voltage	220/230/240VAC			
	馈入电网电压范围 Grid Voltage Range	195-253VA			
	馈入电网频率范围 Grid Frequency Range	49-51±1Hz/59-61±1Hz			
	标称输出电流 Output Current	23.9A	26.9A	34.7A	47.8A
	功率因数范围 Power Factor Range	>0.99			
	最大转换效率 (DC/AC) Conversion Efficiency	98%			
电池 Battery	额定电压 Rated Voltage	48VDC			
	恒压充电电压 (可设) Constant Charging Voltage (Adjustable)	56.4VDC			
	浮充充电电压 (可设) Float Charging Voltage (Adjustable)	54VDC			
充电器 Charger	PV充电方式 PV Charging Method	MPPT	MPPT	MPPT*2	MPPT*2
	PV最大输入功率 Max PV Input	5500W	6200W	2x5500W	2x5500W
	追踪范围 MPPT Tracking Range	120-500VDC	120-500VDC	90-500VDC	90-500VDC
	最佳 Vmp 工作范围 Best VMP Working Range	300-400VDC	300-400VDC	300-400VDC	300-400VDC
	最大 PV 输入电压 MAX PV Input Voltage	500VDC	500VDC	500VDC	500VDC
	最大 PV 输入电流 MAX PV Input Current	18A	18A	18A/18A	18A/18A
	最大 PV 充电电流 MAX PV Charge Current	100A	100A	150A	150A
	最大市电充电电流 MAX AC Charge Current	60A	80A	120A	150A
	最大充电电流 MAX Charge Current	100A	120A	150A	150A
显示 Display	LCD	可显示运行模式/负载/输入/输出等 Can display operating mode/load/input/output			
接口 Interface	RS232	5PIN/Pitch 2.54mm, 波特率 Baud Rate 2400			
	扩展插槽通讯接口 Expansion Slot Communication Interface	2x5PIN/Pitch 2.54mm, 锂电池 BMS 通信卡, WiFi 卡, 十接点卡等 Lithium Battery BMS Communication Card, WiFi 2x5PIN/Pitch 2.54mm			
	并机接口 Parallel Interface	并机(网)功能 Support Parallel			
环境参数 Ambient Temperature	运行环境温度 Operating Temperature	-10°C~50°C			
	储存温度 Storage Temperature	-15°C~60°C			
	海拔高度 Ork Altitude	海拔高度不应超过 1000m, 1000m 以上下降, 最高 4000m, 参考 IEC62040 No more than 1000m, if 1000m < Rate power will lower, MAX 4000m, Refer to IEC62040			
	运行环境温度 Operating Environment Humidity	20%-95% 无凝露 Non Condensing			
物理参数 Dimension	噪音 Noise	≤50db			
	深*宽*高 L*W*H (mm)	495*312*146mm		570*500*148mm	
标准和认证 Standards and Certifications		EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1			

UD系列

UD Series



太阳能逆变器UD系列 SOLAR INVERTER UD SERIES 800W~10000W

应用范围 Application



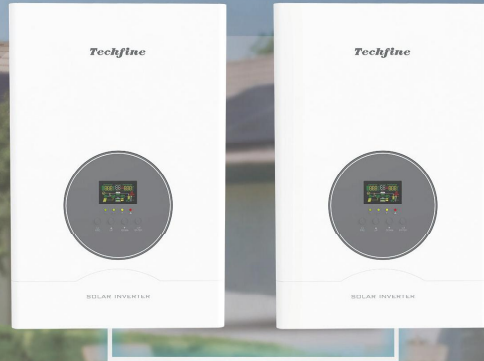
产品特性 Features

-  纯正弦波输出
Pure sine wave output
-  可选支持WIFI /GPRS
Can support WIFI / GPRS
-  控制器MPPT的效率是98%
MPPT efficiency max 98%
-  可以选内置MPPT/PWM30-60A控制器
Optional built-in MPPT/PWM30-60A controller
-  直流启动及自动自诊断功能
DC start & automatic self diagnostic function
-  可选发电机自启
Automatically send signal to start generator
-  用于优化电池性能的高效设计
High efficiency design for optimized battery performance
-  充电电流可调节
Selectable charging current based on applications
-  可调节市电启动电压, 自动重启电压
AC start-up voltage auto restart voltage
-  可选铅酸电池/锂电池机型
lead acid battery/Lithium battery

型号Model	UDI012AP	UDI512AP	UDI524AP	UD2024AP	UD3024AM	UD5048AM	UD6348AM	UDI0048AM	UDI2548AM
电源输入AC Input voltage	220VAC (standard)				220VAC (standard)				
输入电压范围Input voltage range	154~264VAC±3V (Nor Model) 185~264VAC±3V (UPS model) 110V机型: 77~132VAC±3V (Nor Model) 92~132VAC±3V (UPS model)								
输入频率Input frequency	50/60Hz±5%				50/60Hz±5%				
额定输出功率Out put power	1000VA 800W	1500VA 1200W	1500VA 1200W	2000VA 1600W	3000VA 2400W	5000VA 4000W	6300VA 5000W	10000VA 8000W	12500VA 10000W
市电下输出电压 AC model output Voltage	市电下的输出电压跟输入电压一样 The output voltage under the mains is the same as the input voltage								
市电下输出频率 AC model outout frequency	市电下的输出频率跟输入频率一样 The output frequency under the mains is the same as the input frequency								
逆变下输出电压 Battery model output voltage	220VAC±10% (定制110VAC±10%)								
逆变下输出频率 Battery model output frequency	50HZ or 60HZ±1%								
逆变下输出波形 Battery model output wave	正弦波Pure sine wave								
电池类型Battery type	外接铅酸电池, 胶体电池, 水电池或者锂电池 External lead-acid battery, Gel battery, water battery or Lithium battery								
电池电压Battery voltage	12VDC	12VDC	24VDC	24VDC	24VDC	48VDC	48VDC	48VDC	48VDC
电池充电电压 Battery charging voltage	13.7VDC	13.7VDC	27.4VDC	27.4VDC	27.4VDC	54.8VDC	54.8VDC	54.8VDC	54.8VDC
最大光伏阵列功率 Maximum PV array power	12V:800W		24V:1600W			48V:6400W			
太阳能输入电压范围 Solar input voltage range	12V: PWM 15V-50VDC 24V: PWM 30V-105VDC				24V:MPPT 30V-150VDC 48V: MPPT 60V-150VDC				
最大光伏阵列开路电压 Maximum PV Display Open Circuit Voltage	12V: PWM 50VDC 24V: PWM 105VDC				24V:MPPT 150VDC 48V:MPPT 150VDC				
最大太阳能充电电流 Maximum solar charging current	60A						120A		
最大AC充电电流 Maximum AC Charge Current	19A	29A	15A	19A	30A	24A	29A	48A	60A
转换时间Transfer time	≤10ms (UPS模式) / ≤20ms (INV模式)								
负载峰值比load peak ratio	(MAX)3:1								
保护功能Protective function	市电下: 输入过流保险丝Under the mains : input overcurrent fuse 逆变下: 过载保护、短路保护、低压保护, (可带电池防反接板)。 Under inverter: overload protection, short circuit protection, low voltage protection, (with battery anti-reverse connection, board).								
状态显示Status Display	通过翻页键可以查看, AC电压, AC频率, PV电压, PV电流, 输出电压, 输出频率, 电池电压, 负载电流等参数。 You can view parameters such as AC voltage, AC frequency, PV voltage, PV current, output voltage, output frequency, battery voltage, load current and other parameters by turning the page keys.								
声音提示Voice prompt	电池低压保护蜂鸣器长鸣Low battery protection buzzer long beep 电池低压蜂鸣器一秒一响Low battery buzzer beeps every second 机器故障蜂鸣器长鸣 Machine fault buzzer beeps 过载蜂鸣器长鸣 Overload buzzer beeps 过载小于130%蜂鸣器一秒一响, 30s后关断输出, 超载大于150%时300ms后关断输出 When the overload is less than 130%, the buzzer will sound every second, and the output will be turned off after 30s. When the overload is greater than 150%, the output will be turned off after 300ms.								
工作温度Operating temperature	0°C-40°C								
存放温度Storage temperature	-15°C-45°C								
相对湿度Relative temperature	-10°C-90°C无凝露 no condensation								
噪音Noise	<45dB								
机器尺寸 size (L*W*H)mm	465*310*135MM						545*400*200MM		

UD系列

UD Series



太阳能逆变器UD系列并机版B SOLAR INVERTER UD SERIES 5000W~10000W

应用范围 Application



产品特性 Features

-  纯正弦波输出
Pure sine wave output
-  自主研发的PCB板和散热系统, 质量更稳定
Self design PCB board and cooling system
-  充电效率高, MPPT 最大效率可达98%
MPPT efficiency max 98%
-  可以选内置MPPT控制器
Optional built-in MPPT controller
-  高效设计和“省电模式”以节省能源
High Efficiency Design & "Power Saving Mode" to Conserve Energy
-  市电恢复自动重启功能
Auto Restart when Ac in recovering
-  可实现并机扩容,9台同时工作(兼容三相并机)
Parallel Function Up to Maximum 9 Units
-  充电电流可调节
Selectable charging current based on applications
-  可调节市电启动电压, 自动重启电压
AC start-up voltage auto restart voltage
-  支持锂电通讯、外置WIFI、干接点功能
Supports lithium battery communication and external WIFI

型号Model	UD6348MB	UD12548MB
电源输入AC Input voltage	220VAC(standard)	
输入电压范围Input voltage range	90~275VAC±3V(正常模式Nor Model) 170~275VAC±3V(UPS模式UPS Model)	
输入频率Input frequency	50/60Hz±5%	
额定输出功率Out put power	5000W	10000W
市电下输出电压 AC model output Voltage	市电下的输出电压跟输入电压一样 The output voltage under the mains is the same as the input voltage	
市电下输出频率 AC model outout frequency	市电下的输出频率跟输入频率一样 The output frequency under the mains is the same as the inputfrequency	
逆变下输出电压 Battery model output voltage	220VAC±10%	
逆变下输出频率 Battery model output frequency	50HZ or 60HZ±1%	
逆变下输出波形 Battery model output wave	正弦波Pure sine wave	
电池类型Battery type	外接铅酸电池, 胶体电池, 水电池或者锂电池 External lead-acid battery,Gel battery, water battery or Lithium battery	
电池电压Battery voltage	48VDC	
电池充电电压 Battery charging voltage	56.4VDC(可设范围: 48V~61V)	
最大光伏阵列功率 Maximum PV array power	3200W	6400W
太阳能输入电压范围 Solar input voltage range	48V: MPPT 60V~150VDC(定制可200VDC)	
最大光伏阵列开路电压 Maximum PV Display Open Circuit Voltage	48V: MPPT 150VDC(定制可200VDC)	
最大太阳能充电电流 Maximum solar charging current	60A	120A
最大AC充电电流 Maximum AC Charge Current	30A	60A
转换时间Transfer time	≤10ms (UPS模式) / ≤20ms (INV模式)	
负载峰值比load peak ratio	(MAX) 3:1	
保护功能Protective function	市电下: 输入过流保险丝 Under the mains : input overcurrent fuse 逆变下: 过载保护、短路保护、低压保护, 电池反接保护(保险管) Under inverter: overload protection,short circuit protection, low voltage protection, battery reverse connection protection (fuse).	
状态显示Status Display	通过翻页键可以查看, AC电压, AC频率, PV电压, PV电流, 输出电压, 输出频率, 电池电压, 负载电流等参数。 You can view parameters such as AC voltage, AC frequency, PV voltage, PV current, output voltage, output frequency, battery voltage, load current and other parameters by turning the page keys.	
声音提示Voice prompt	电池低电保护蜂鸣器长鸣Low battery protection buzzer long beep 电池低电蜂鸣器一秒一响Low battery buzzer beeps every second 机器故障蜂鸣器长鸣 Machine fault buzzer beeps 过载蜂鸣器长鸣 Overload buzzer beeps 过载小于130%蜂鸣器一秒一响, 30s后关断输出, 超载大于150%时300s后关断输出 When the overload is less than 130%, the buzzer will sound every second,and the output will be turned off after 30S. When the overload is greater than 150%,the output will be turned off after 300ms.	
接口Interface	RS232, 锂电池BMS通讯, 并机接口, 干接点卡 RS232, lithium battery BMS communication, parallel interface, dry junction card	
工作温度Operating temperature	-10°C~50°C	
存放温度Storage temperature	-15°C~45°C	
相对湿度Relative temperature	20%~95%无凝结 no condensation	
噪音Noise	<45dB	
机器尺寸 size (L*W*H)mm	527*330*149mm	545*400*200mm