

Fullsuns


Full future

激光电池图册

Laser battery
pictures and brief
introduction



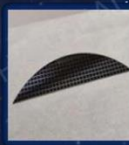
datasheet



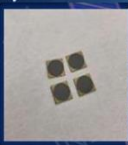
伏日能源
FULLSUNS SHANGHAI FULLSUNS ENERGY TECHNOLOGY CO.,LTD

Laser Battery


Wireless energy transmission




Free from electromagnetic interference



Long distance stability



Flexible and bendable



Preparation of multi-junction micro flexible batteries based on GaAs
Laser energy → electrical energy

Typical applications


- ☆Wireless energy transmission: micro ants, micro robots
- ☆Health care: nuclear magnetic resonance equipment
- ☆Supply sensing: optical fiber measurement
- ☆Defense security: weapon control systems, individual equipment
- ☆Aerospace: unmanned aerial vehicles

Main product parameters		
Working wavelength	800nm-830nm	1050nm-1080nm
Operating temperature	-40°C~100°C	
Battery size	3mm*3mm或10mm*10mm或20mm*40mm	

808nm Main performance parameters of six-junction(6J) laser battery							
Incident power	Isc(mA)	Voc(V)	Pmax(mW)	Ipm(mA)	Vpm(V)	FF	Eff(%)
1w	101	6.99	620	101	6.13	0.85	56.9
6w	540	6.95	3130	522	6.00	0.83	54.4
8w	728	6.85	4100	707	5.89	0.83	50.7

1064nm Main performance parameters of nine-junction(9J) laser battery							
Incident power	Isc(mA)	Voc(V)	Pmax(mW)	Ipm(mA)	Vpm(V)	FF	Eff(%)
4w	247	7.57	1639	236	6.94	0.88	41.00
5w	307	7.59	2027	294	6.90	0.87	40.90
6w	372	7.61	2448	354	6.92	0.87	40.30

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伏日能源
FULLSUNS 上海伏日能源科技有限公司

激光电池


无线传能

免受电磁干扰

长距离稳定

微型电池

柔性可弯折



以砷化镓基底制备多结微型 / 柔性电池
激光能 → 电能

典型应用

- ☆无线传能: 微型蚂蚁、微型机器人
- ☆医疗健康: 核磁共振仪器
- ☆工业传感: 光纤测量
- ☆防务安全: 武器控制系统、单兵装备
- ☆航空航天: 无人飞行器

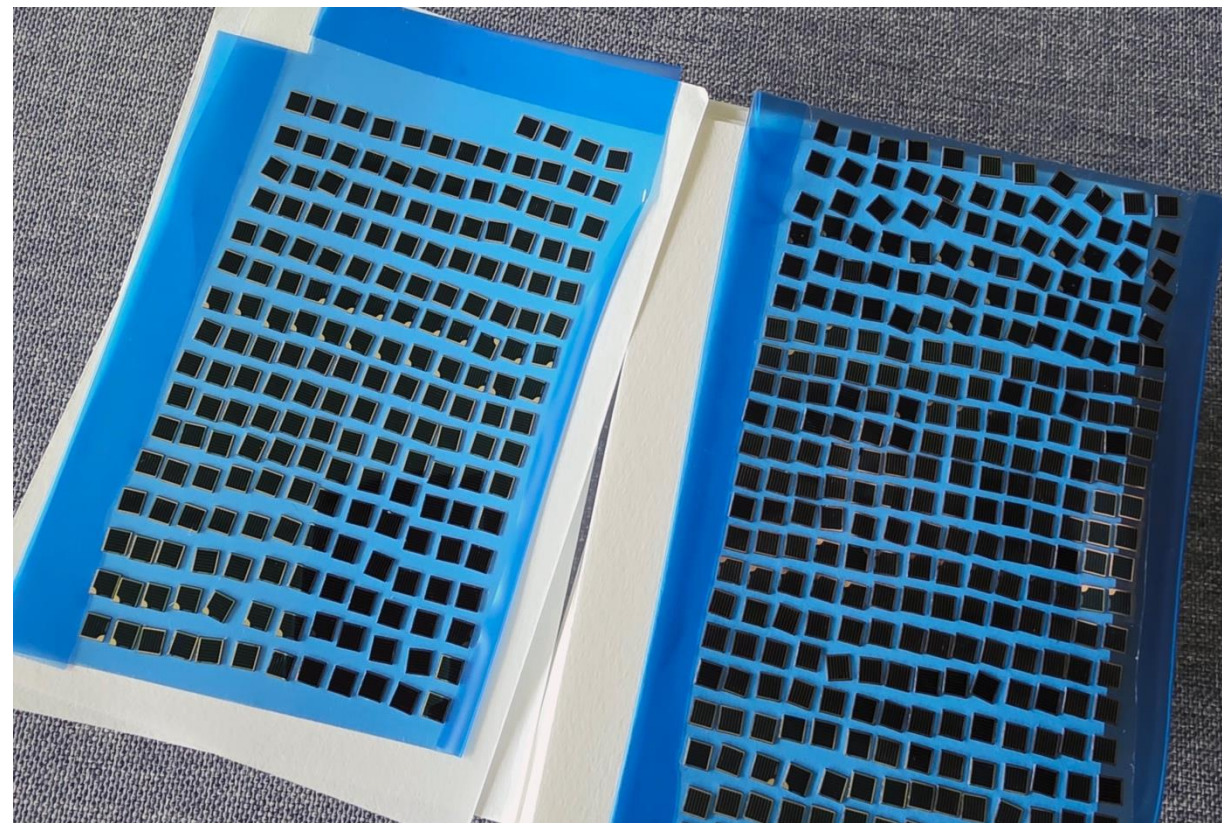
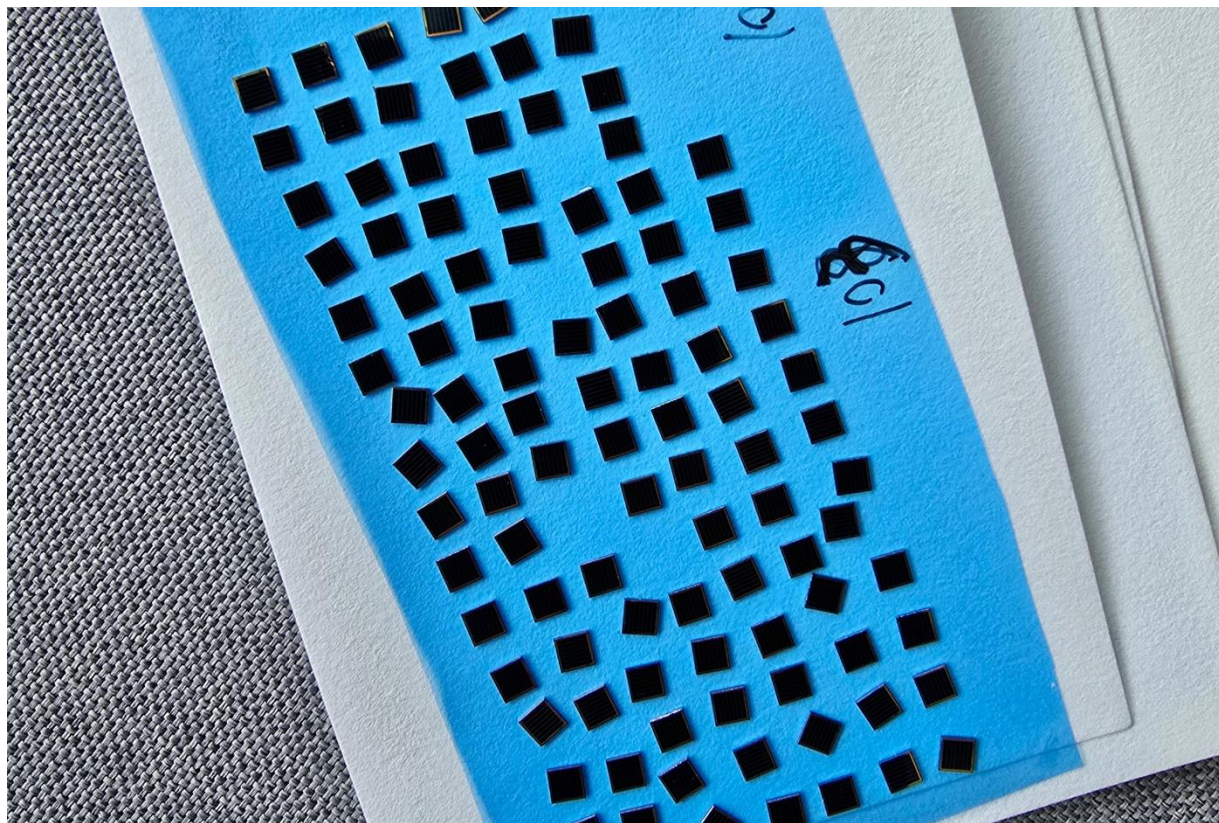
主要产品参数		
工作波长	800nm-830nm	1050nm-1080nm
工作温度	-40°C~100°C	
电池尺寸	3mm*3mm或10mm*10mm或20mm*40mm	

808nm 六结激光电池主要性能参数							
入射功率	Isc(mA)	Voc(V)	Pmax(mW)	Ipm(mA)	Vpm(V)	FF	Eff(%)
1w	101	6.99	620	101	6.13	0.85	56.9
6w	540	6.95	3130	522	6.00	0.83	54.4
8w	728	6.85	4100	707	5.89	0.83	50.7

1064nm 九结激光电池主要性能参数							
入射功率	Isc(mA)	Voc(V)	Pmax(mW)	Ipm(mA)	Vpm(V)	FF	Eff(%)
4w	247	7.57	1639	236	6.94	0.88	41.00
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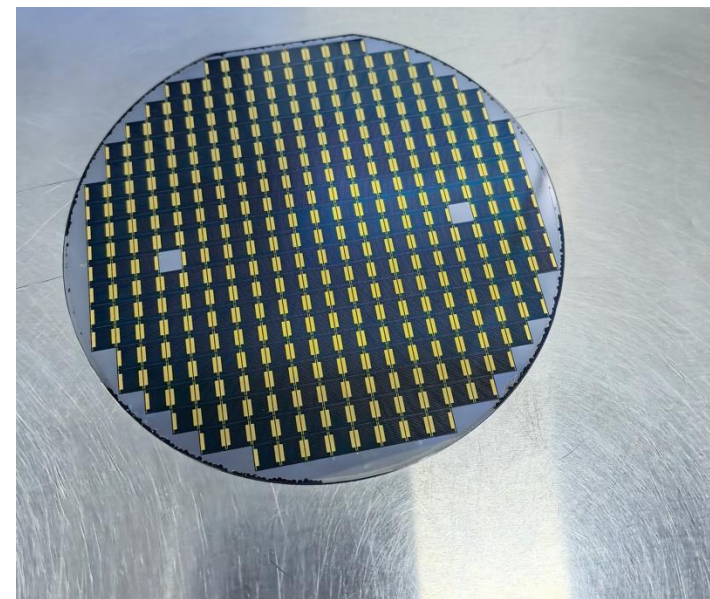
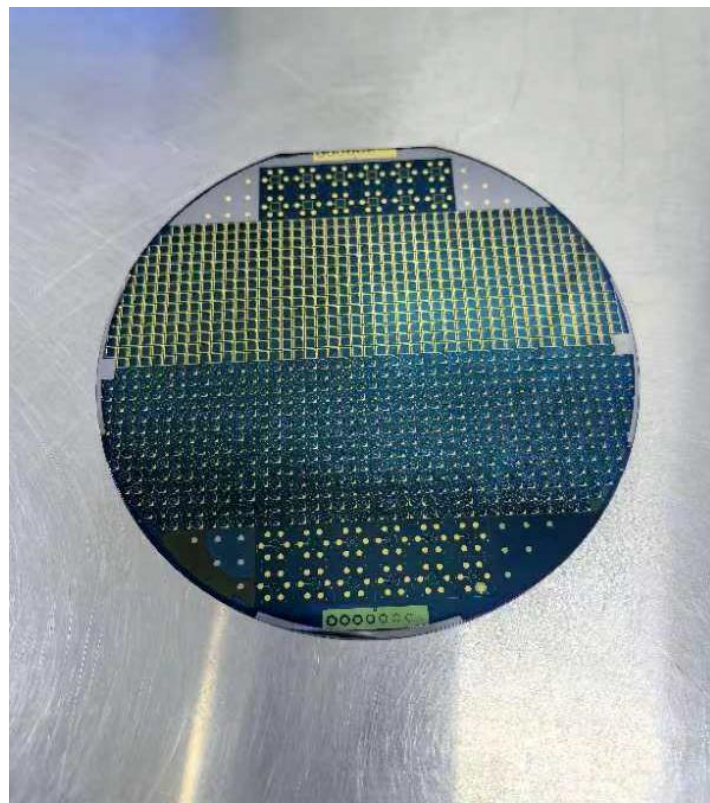
3.5*3.5mm



20*40mm



裸die
nude



808nm--6结电池-变
光强测试数据范例
808nm--6-junction
cell-variable light
intensity test data
example

