

ALPHA[®] SF828-MBB

Multi-Busbar Flux For Advanced Solar PV Interconnection

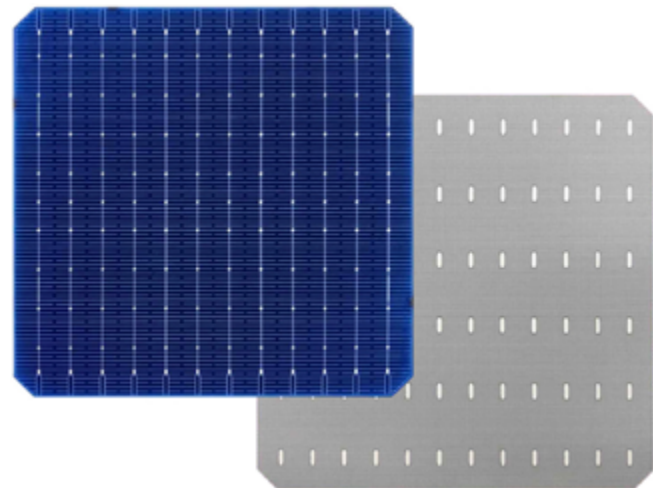
ALPHA SF828-MBB is a next generation Photovoltaic (PV) tabbing and stringing flux specially designed for advanced multi-busbar PV interconnection, aimed at soldering small surface areas of wire and delivering excellent peel force and high machine cleanliness.



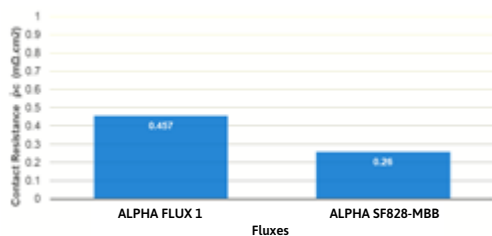
KEY FEATURES

- Suitable for challenging interconnection with a ribbon wire size less than 0.4mm diameter
- Minimal or no heating is required prior to wire ribbon dipping
- Minimal, tack free residues for low equipment maintenance and downtime
- Reduced wire slip

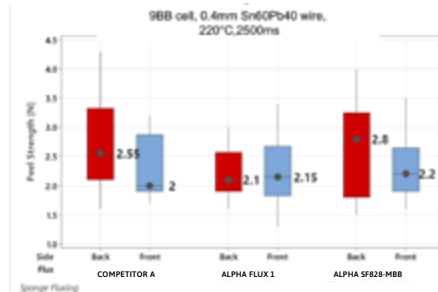
ALPHA SF828-MBB provides high reliability for long module life. It is compatible with a variety of encapsulants including a variety of EVA materials.



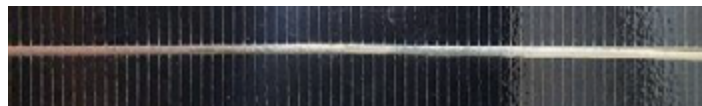
Contact Resistivity



Peel Strength



EVA Compatibility



No yellowing and delamination observed

ALPHA[®] SF828-MBB

Multi-Busbar Flux For Advanced Solar PV Interconnection

PERFORMANCE SUMMARY



| TECHNICAL DATA | ALPHA SF828-MBB |
|--------------------------|-----------------|
| Solid Content | 2 |
| Acid Number (mg KOH/gm) | 15.8 |
| Special Gravity | 0.791 |
| Flux Type, IPC J-STD-004 | ORL0 |
| Halogen Content | Halogen-Free |

APPLICATION PROCESS

| PROCESS CONTROL | ALPHA SF828-MBB |
|--------------------------|-----------------------------------|
| Flux Application | Dip*, Soak*, Spray |
| Preheat Temp.°C | 100 - 140 |
| Soldering Method | Contact Soldering, IR, Convection |
| Soldering Temp °C (SnPb) | 220 - 280 |

*Preferred Process

RELIABILITY PERFORMANCE

| DAMP HEAT TEST (85°C/85%RH) | | |
|--|--|---|
| | T0 Hr | T1000 Hr |
| ALPHA SF828-MBB |  |  |
| No color degradation and smudging of flux layer observed. Soldering and bonds remain intact. | | |

WIRE SHIFTING IMPROVEMENT

