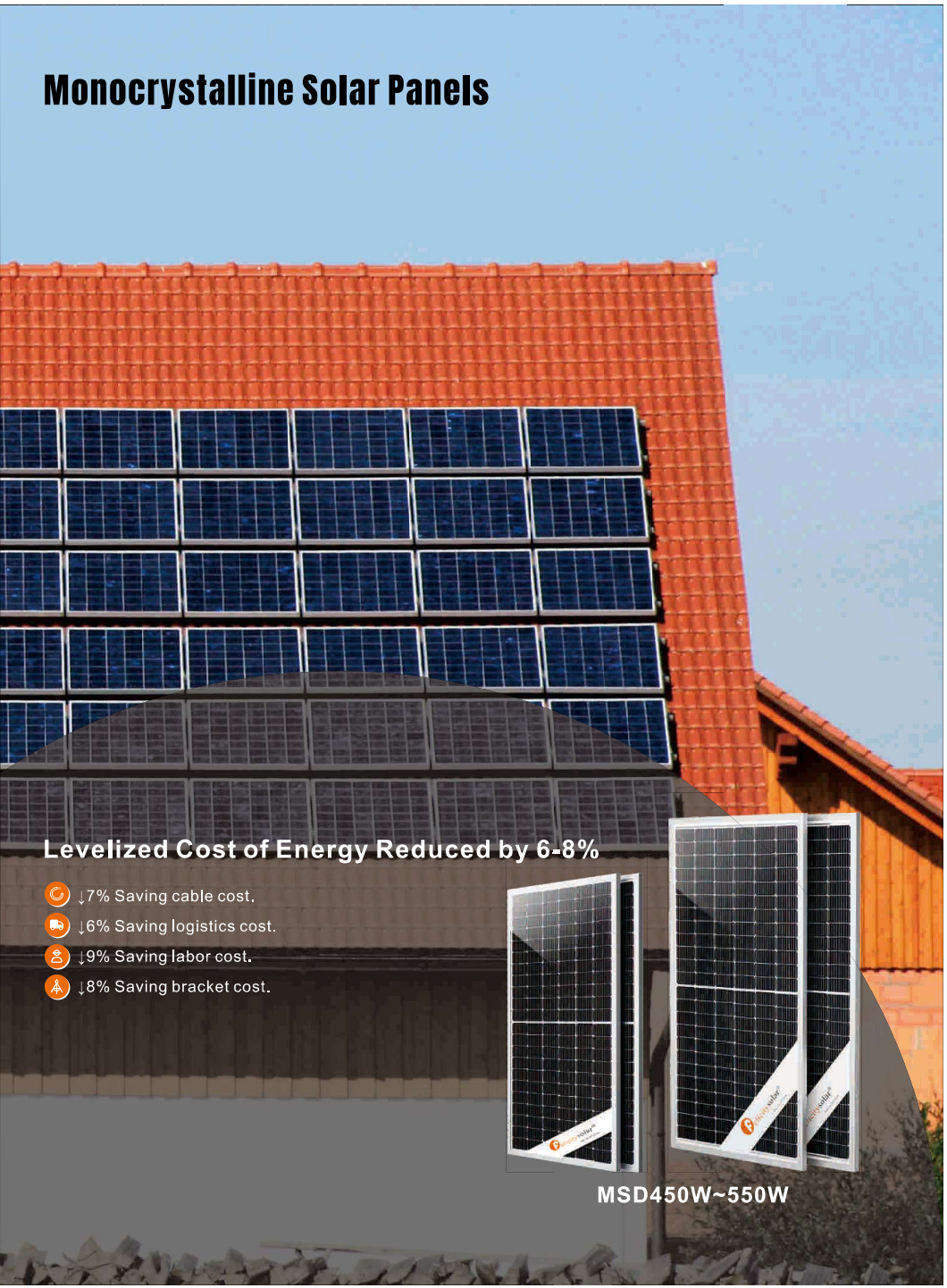
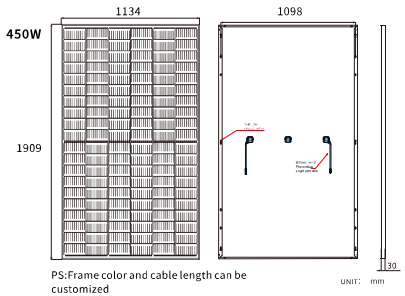
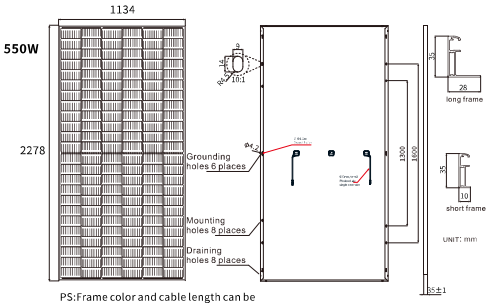
Monocrystalline Solar Panels



Mechanical Diagrams



PS:Frame color and cable length can be customized



PS:Frame color and cable length can be customized

Model	MSD120-EM450W	MSD144M-EM550W
Rated Maximum Power(Pmax)[W]	450Wp	550Wp
Open Circuit Voltage(Voc)[V]	42.72V	51.1V
Maximum Power Voltage(Vmp)[V]	35.6V	42.6V
Short Circuit Current(Isc)[AJ	13.3A	13.6A
Maximum Power Current(Imp)[A]	12.6A	12.9A
Power Tolerance	±3%	±3%
Temperature Coefficent of Isc(α_Isc)	-0.046%/°C	-0.046%/°C
Temperature Coefficent of Voc (β_Voc)	-0.276%/°C	-0.276%/°C
Temperature Coefficent of Pmax(γ_Pmp)	-0.350%/°C	-0.350%/°C
Operating Conditions		
Maximum System Voltage	1500Vdc	
Operating Temperature	-40°C~+85°C	
Maximum Series Fuse	25A	
Maximum Static Load, Front	5400Pa(112lb/ft²)	
Maximum Static Load, Back	2400Pa(501b/ft²)	
NOCT	45+2°C	
Backside Ratio	70%±10%	
Fireproof Performance	UL Type 29	
STC	Irradiance 1000W/m2, Cell Temperature 25°C, AM1.5	

*Standard Test Conditions: Solar Irradiance 1000 W/m%, Solar Spectrum 1.5AM and Cell Temperature 25 °C