

# Mono Half Cut Series Solar Panels

**525-595Wp**



## About Servotech Renewable

Servotech Renewable Power System Ltd. (NSE: SERVOTECH) is India's leading manufacturer of advanced clean energy solutions, specializing in solar Solutions, BESS and EV charging solutions. With a robust pan-India presence, agile manufacturing, and strong R&D capabilities, Servotech is driving India's transition toward a sustainable, energy-independent, and technologically empowered future. Through continuous innovation, strategic collaborations, and large-scale deployments, the company delivers reliable, high-performance solutions that support the nation's clean energy goals. Servotech's comprehensive portfolio spanning solar panels, inverters, Lithium batteries, and EV chargers reflects its commitment to engineering excellence and environmental stewardship. By aligning business growth with global sustainability standards, Servotech stands as a catalyst in shaping India's green energy transformation and powering a cleaner tomorrow.



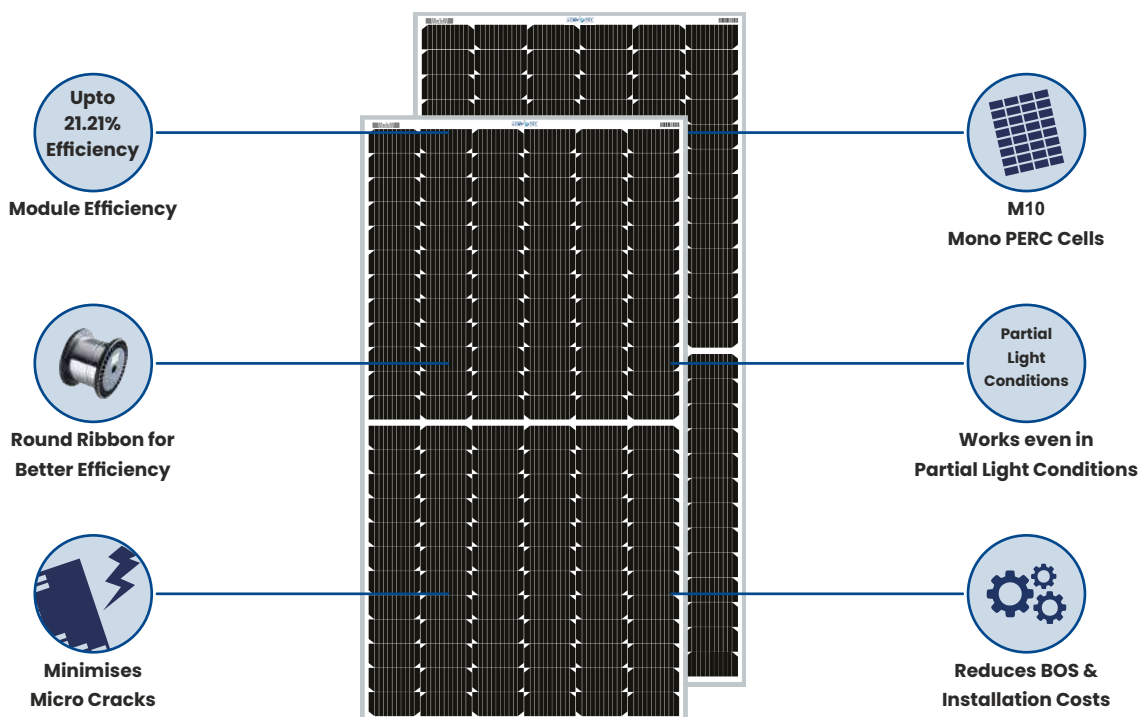
# Mono Half Cut Series

## Solar Panels



Servotech’s Mono Half Cut Solar Panels redefine renewable energy with a strong focus on reliability and long-term performance. Expertly engineered with round ribbons and M10 Mono PERC Cells, these high-efficiency modules deliver up to 21.21% efficiency and are designed to maximize power output even in Partial Light conditions, all while maintaining a sleek, compact design. Built to endure diverse weather conditions, they feature robust, weather-resistant construction that minimizes micro-cracks and undergo rigorous quality testing to ensure a micro-crack-free lifespan. Backed by a 25-year performance warranty, our Mono Half-Cut panels provide a dependable, sustainable solution for powering households and large-scale utility systems alike.

### Ideal for Large - Scale Installations



**Highly Efficient PV Module**

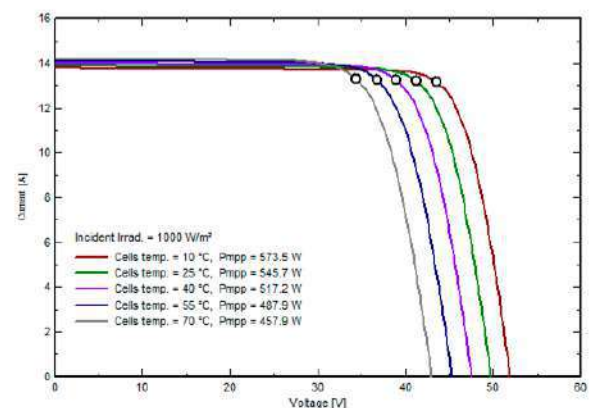
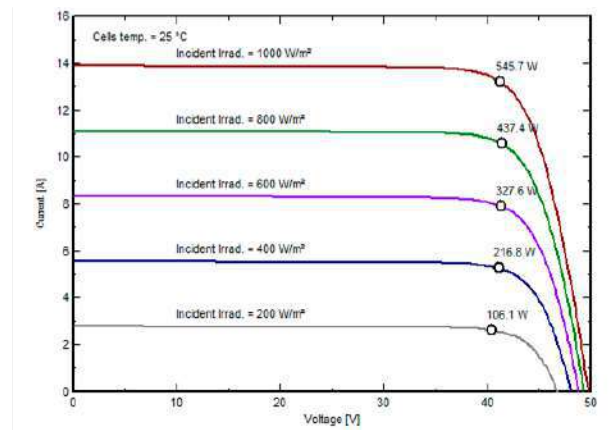
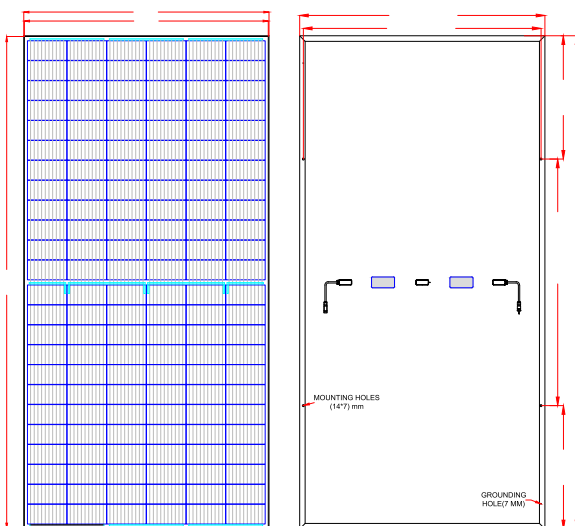
# ELECTRICAL DATA (STC)

Model No:	STM525-HM	STM530-HM	STM535-HM	STM540-HM	STM545-HM	STM550-HM	STM580-HM	STM585-HM	STM590-HM	STM595-HM
Peak Power Watts-Pmax	525	530	535	540	545	550	580	585	590	595
power Output Tolerance - P <sub>MAX</sub>	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5
Maximum Power Voltage VMPP(V)	41.35	41.5	41.7	41.8	41.939	42.058	45.06	45.2	45.37	45.51
Short Circuit Current - ISC (A)	13.6	13.65	13.71	13.79	13.86	13.92	13.6	13.65	13.71	13.79
Open Circuit Voltage Voc (V)	48.91	49.05	49.14	49.23	49.34	49.48	53.62	53.82	54.05	54.17
Maximum Power Current IMPP (A)	12.70	12.77	12.83	12.92	13.00	13.08	12.87	12.94	13.00	13.07
Module Efficiency $\eta_m$ (%)	<b>20.31</b>	<b>20.50</b>	<b>20.70</b>	<b>20.89</b>	<b>21.08</b>	<b>21.28</b>	<b>20.74</b>	<b>20.92</b>	<b>21.10</b>	<b>21.28</b>

# MECHANICAL DATA

Solar Cells Per Module (Units)	144	156
Monocrystalline Solar Cell Size (inches)	3.5 X 3.2	
Module Size (L x W x T) (inches)	89.7 X 44.6 X 1.3	97 X 44.6 X 1.3
Weight	59.7 lbs	64.1 lbs
J - Box	IP68/ Split junction box with Individual by pass diodes	
Connector	(MC4) Amphenol	
Glass	Low iron High Transmission AR coated tempere	
Backcover	Poly Vinyl Fluoride (Composite film)	
Frame	Silver Anodized Aluminum Frame	

# ENGINEERING DRAWINGS



## Temperature Coefficients (Tc) permission operating conditions

Tc of Open Circuit Voltage [ $\beta$ ]	-0.27%/°C
Tc of Open Circuit Current [ $\alpha$ ]	0.050%/°C
Tc of Power [ $\gamma$ ]	-0.35%/°C
Maximum System Voltage	1500V
NOCT	45°C $\pm$ 2°C
Temperature Range	-40°C to + 85°C

\*Due to continuous improvement technical specifications & product image can change without prior notice.

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**Safiabad Plant:** Killa No. 14/6/1/2 (0-3), 6/2/3 (5-13) Village-Safiabad, Pana Paposhian, Rai, Sonipat, Haryana - 131029

