

SOLAR POWER PACKS

OFF-GRID MPPT SOLAR SYSTEMS WITH TUBULAR CONVENTIONAL SOLAR BATTERIES

THE EASTMAN ADVANTAGE

- EAPL MPPT systems are designed with MPPT tracking efficiency of $\geq 99.5\%$
- EAPL MPPT systems deliver 30% more energy vs PWM for the same size of solar panels
- EAPL MPPT saves 30% space for installation of solar panel in addition to saving on money
- EAPL MPPT is even very effective during cloudy days
- EAPL Solar Kits are designed by team of highly experienced solar experts
- These kits have been carefully configured and technically optimized to give maximum energy yield
- Highly reliable and most cost effective
- Flexibility in the selection of solar kits size as per needs of the customers
- Easy and mistake proof installation
- Single window consumers delight service support from EAPL for all components



SOLAR OFF-GRID MPPT PCU FEATURES

- * Advanced MPPT technology ensures upto 30% more energy extraction from Solar panel as compared to PWM based technology
- * Intelligent selection modes for high/ medium/low power cut areas
- * Pure sine-wave output
- * Advanced DSP based technology
- * LCD Screen for user convenience
- * User configurable parameters through front end wide screen LCD display
- * Intelligent mixing of Grid current with solar in case of solar energy shortfall during cloudy days
- * Highest efficiency in its class
- * Built-in energy meter for Mains, Battery, Solar and Load
- * Temperature compensated (ATC) charging to enhance performance and life of battery upto 30%
- * Remote monitoring and data logging feature

SOLAR PV MODULE FEATURES

- * Manufactured in India using world class technology platform and processes
- * Premium grade high efficiency 4BB-5BB solar cells
- * Potential Induced Degradation (PID) Resistant
- * High transmission glass and cell surface texturing ensures excellent performance even in low light conditions
- * More power due to positive power tolerance
- * Weather proof junction box
- * Robust anodized non-corroding aluminum frame for long life
- * Suitable for all types of solar applications - Off-Grid, Grid-tie, Hybrid, Bi-directional, DC, etc.
- * Designed as per IEC and /or equivalent Standards : IEC 61215-2005, IEC 61730-Ed. 1&2, IEC 61701 & IEC 62804

TUBULAR CONVENTIONAL SOLAR BATTERY FEATURES

- * Higher charge efficiency
- * Low self discharge
- * Ultra low maintenance & higher cycle life
- * Suitable for frequent power cut areas
- * Recommended for tropical climates
- * Level indicator for easy maintenance
- * Reliable & steady performance, even on heavy load
- * Eco-friendly aqua trap vent plugs ensuring no acidic fumes

OFF-GRID MPPT SOLAR SYSTEMS WITH TUBULAR CONVENTIONAL SOLAR BATTERIES

Pack #	Pack Model	System Details	Solar PCU	Battery	Solar Panels	Estimated Back Up from Solar & Battery	Estimated Back Up from Solar & Battery on full load	Estimated Annual Free Units (KWH) Generation from Solar	Battery Charging share of solar and grid on full discharge	Estimated Area required for Solar Panels Installation
Pack-502	ESKM3K/4 B200C10/4S265	Model	ESM3K/48	EM200SB	EPP265W	4.50 Hours	1.90 Hours	1,250 Units	37% from Solar, 63% from Grid	11 Sq. Meter
		Rating	3KVA/48V	200Ah	265Wp					
		Type	MPPT	TT Solar	Polycrystalline					
		Qty.	1	4	4					
		Warranty	24 Months	60 Months	25 years *					
Pack-101	ESKM3K/4 B200C20/8S265	Model	ESM3K/48	EM20060TT	EPP265W	3.50 Hours	1.60 Hours	2,500 Units	67% from Solar, 33% from Grid	22 Sq. Meter
		Rating	3KVA/48V	200Ah	265Wp					
		Type	MPPT	TT Conventional	Polycrystalline					
		Qty.	1	4	8					
		Warranty	24 Months	36 Months	25 years *					
Pack-501	ESKM3K/4 B200C10/8S265	Model	ESM3K/48	EM200SB	EPP265W	4.62 Hours	2.21 Hours	2,500 Units	61% from Solar, 39% from Grid	22 Sq. Meter
		Rating	3KVA/48V	200Ah	265Wp					
		Type	MPPT	TT Solar	Polycrystalline					
		Qty.	1	4	8					
		Warranty	24 Months	60 Months	25 years *					
Pack-102	ESKM3K/8 B160C20/8S265	Model	ESM3K/48	EM16060TT	EPP265W	7.00 Hours	3.20 Hours	2,500 Units	42% from Solar, 58% from Grid	22 Sq. Meter
		Rating	3KVA/48V	160Ah	265Wp					
		Type	MPPT	TT Conventional	Polycrystalline					
		Qty.	1	8	8					
		Warranty	24 Months	36 Months	25 years *					
Pack-503	ESKM3K/8 B150C10/8S265	Model	ESM3K/48	EM150SB	EPP265W	7.00 Hours	3.10 Hours	2,500 Units	47% from Solar, 53% from Grid	22 Sq. Meter
		Rating	3KVA/48V	150Ah	265Wp					
		Type	MPPT	TT Solar	Polycrystalline					
		Qty.	1	8	8					
		Warranty	24 Months	60 Months	25 years *					
Pack-103	ESKM5K/8 B200C20/10S265	Model	ESM5K/96	EM20060TT	EPP265W	5.50 Hours	2.60 Hours	3,127 Units	33% from Solar, 67% from Grid	27 Sq. Meter
		Rating	5KVA/96V	200Ah	265Wp					
		Type	MPPT	TT Conventional	Polycrystalline					
		Qty.	1	8	10					
		Warranty	24 Months	36 Months	25 years *					
Pack-504	ESKM5K/8 B200C10/10S265	Model	ESM5K/96	EM200SB	EPP265W	6.50 Hours	3.10 Hours	3,127 Units	30% from Solar, 70% from Grid	27 Sq. Meter
		Rating	5KVA/96V	200Ah	265Wp					
		Type	MPPT	TT Solar	Polycrystalline					
		Qty.	1	8	10					
		Warranty	24 Months	60 Months	25 years *					
Pack-104	ESKM5K/1 6B160C20/14S265	Model	ESM5K/96	EM16060TT	EPP265W	7.50 Hours	3.50 Hours	4,400 Units	40% from Solar, 60% from Grid	38 Sq. Meter
		Rating	5KVA/96V	160Ah	265Wp					
		Type	MPPT	TT Conventional	Polycrystalline					
		Qty.	1	16	14					
		Warranty	24 Months	36 Months	25 years *					

* Specifications are subject to change without prior notice due to constant improvement in design and technology.
* Refer to Eastman solar PV module warranty card for further details

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Pack #	Pack Model	System Details	Solar PCU	Battery	Solar Panels	Estimated Back Up from Solar & Battery	Estimated Back Up from Solar & Battery on full load	Estimated Annual Free Units (KWH) Generation from Solar	Battery Charging share of solar and grid on full discharge	Estimated Area required for Solar Panels Installation
Pack-105	ESKM7K5/10B200C20/20S265	Model	ESM7K5/120	EM20060TT	EPP265W	4.60 Hours	2.21 Hours	6,254 Units	67% from Solar, 33% from Grid	53 Sq. Meter
		Rating	7.5KVA/120V	200Ah	265Wp					
		Type	MPPT	TT Conventional	Polycrystalline					
		Qty.	1	10	20					
		Warranty	24 Months	36 Months	25 years *					
Pack-505	ESKM5K/16B150C10/14S265	Model	ESM5K/96	EM150SB	EPP265W	10.00 Hours	4.80 Hours	4,400 Units	40% from Solar, 60% from Grid	38 Sq. Meter
		Rating	5KVA/96V	150Ah	265Wp					
		Type	MPPT	TT Solar	Polycrystalline					
		Qty.	1	16	14					
		Warranty	24 Months	60 Months	25 years *					
Pack-506	ESKM7K5/10B200C10/20S265	Model	ESM7K5/120	EM200SB	EPP265W	5.50 Hours	2.60 Hours	6,254 Units	61% from Solar, 39% from Grid	53 Sq. Meter
		Rating	7.5KVA/120V	200Ah	265Wp					
		Type	MPPT	TT Solar	Polycrystalline					
		Qty.	1	10	20					
		Warranty	24 Months	60 Months	25 years *					
Pack-107	ESKM10K/10B200C20/20S265	Model	ESM10K/120	EM20060TT	EPP265W	3.57 Hours	1.78 Hours	6,254 Units	67% from Solar, 33% from Grid	53 Sq. Meter
		Rating	10KVA/120V	200Ah	265Wp					
		Type	MPPT	TT Conventional	Polycrystalline					
		Qty.	1	10	20					
		Warranty	24 Months	36 Months	25 years *					
Pack-508	ESKM10K/10B200C10/20S265	Model	ESM10K/120	EM200SB	EPP265W	4.20 Hours	2.10 Hours	6,254 Units	61% from Solar, 39% from Grid	53 Sq. Meter
		Rating	10KVA/120V	200Ah	265Wp					
		Type	MPPT	TT Solar	Polycrystalline					
		Qty.	1	10	20					
		Warranty	24 Months	60 Months	25 years *					
Pack-106	ESKM7K5/20B160C20/20S265	Model	ESM7K5/120	EM16060TT	EPP265W	7.00 Hours	3.20 Hours	6,254 Units	48% from Solar, 52% from Grid	53 Sq. Meter
		Rating	7.5KVA/120V	160Ah	265Wp					
		Type	MPPT	TT Conventional	Polycrystalline					
		Qty.	1	20	20					
		Warranty	24 Months	36 Months	25 years *					
Pack-108	ESKM10K/20B160C20/20S265	Model	ESM10K/120	EM16060TT	EPP265W	6.00 Hours	2.70 Hours	6,254 Units	50% from Solar, 50% from Grid	53 Sq. Meter
		Rating	10KVA/120V	160Ah	265Wp					
		Type	MPPT	TT Conventional	Polycrystalline					
		Qty.	1	20	20					
		Warranty	24 Months	36 Months	25 years *					
Pack-507	ESKM7K5/20B150C10/20S265	Model	ESM7K5/120	EM150SB	EPP265W	8.50 Hours	4.00 Hours	6,254 Units	48% from Solar, 52% from Grid	53 Sq. Meter
		Rating	7.5KVA/120V	150Ah	265Wp					
		Type	MPPT	TT Solar	Polycrystalline					
		Qty.	1	20	20					
		Warranty	24 Months	60 Months	25 years *					
Pack-509	ESKM10K/20B150C10/20S265	Model	ESM10K/120	EM150SB	EPP265W	7.00 Hours	3.10 Hours	6,254 Units	48% from Solar, 52% from Grid	53 Sq. Meter
		Rating	10KVA/120V	150Ah	265Wp					
		Type	MPPT	TT Solar	Polycrystalline					
		Qty.	1	20	20					
		Warranty	24 Months	60 Months	25 years *					

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