

# MONOCRYSTALLINE HALF-CUT SOLAR MODULE (144 CELLS)

Exide's Mono PERC high efficiency series is ideal for solar roof-top installations. It offers high performance, cost economics and reliability to meet the needs of residential, commercial and industrial consumers.

## FEATURES

- High-performance mono PERC cell structure
- Higher energy density per square foot than conventional monocrystalline cells
- Exceptional performance in low-light and high-temperature

## SPECIFICATIONS

Model	EIL540M144	EIL545M144
<b>Electrical Characteristics*</b>		
Pmax (Wp)	540	545
Power Tolerance	0 to + 4.99W	
Module Efficiency (%)	20.90	21.09
Vmp (V)	42.37	42.51
Imp (A)	12.75	12.83
Voc (V)	49.38	49.50
Isc (A)	13.66	13.73
NOCT (°C)	45±2°C	
Maximum System Voltage (V)	1500	
<b>Mechanical Characteristics</b>		
Cell Type	Mono PERC	
Number of Cells/Arrangement	144 / 6x24	
Output Cable CSA/Length	4mm2/350mm	
Connector	MC4 compatible	
Front Cover	3.2mm thick, high transmission, low iron, toughened glass	
Encapsulation	PID free ultra-fast cure EVA	
Junction Box	IP68 split junction box	
Frame	Anodized aluminium alloy	
Maximum Front/Rear Load	5400 Pa / 2400 Pa	
Dimension- L x W x T (mm)	2079 x 1134 x 35	
Weight (kg)	30	

\*All data measured in STC

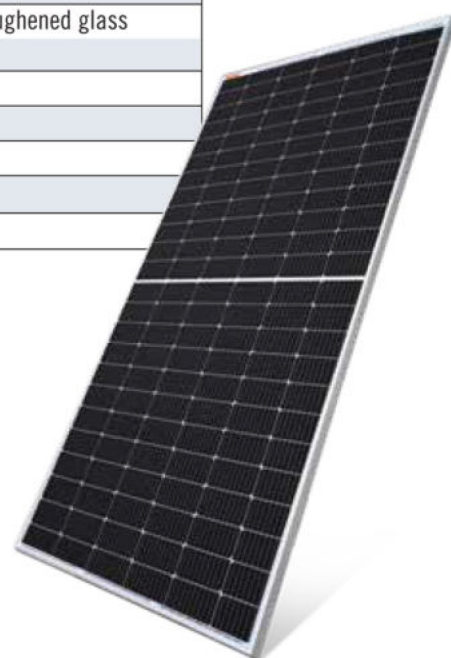
### SPECIFICATION COMPLIANCE

IS 14286: 2010/ IEC 61215: 2005

IS / IEC 61730 (Part 1): 2004

IEC 61701- Salt Mist Test

IEC 62804 – PID Test



**STC:** 1000 W/m<sup>2</sup> irradiance, AM 1.5 spectrum and 25°C cell temperature

**NOCT conditions:** 800 W/m<sup>2</sup> irradiance, ambient temperature 25°C, wind speed 1m/sec

## SOLAR SOLUTIONS FROM EXIDE SUNDAY

### SUGGESTED SYSTEM CONFIGURATIONS WITH EXIDE ADITYA MPPT SOLAR PCU

Solar PCU	Solar Module Configuration			Battery Bank Configuration		Approx. Rooftop Area Required (sq. ft.)
	Rating	Series	Parallel	Series	Parallel	
ADITYA 2K24V	335Wp	2	3	2	1 or 2	213
ADITYA 2.5K48V	335Wp	2	4	4	1 or 2	285
ADITYA 3.5K48V	335Wp	4	3	4	1 or 2	428
ADITYA 5.2K48V	335Wp	4	4	4	1 or 2	570
ADITYA 5.2K96V	335Wp	8	2	8	1 or 2	570
ADITYA 7.5K120V	335Wp	8	3	10	1 or 2	855
ADITYA 10K120V	335Wp	8	4	10	1 or 2	1140
ADITYA 2K24V	540Wp	2	2	2	1 or 2	160
ADITYA 2.5K48V	540Wp	2	2	4	1 or 2	214
ADITYA 3.5K48V	540Wp	4	2	4	1 or 2	321
ADITYA 5.2K48V	540Wp	4	2	4	1 or 2	428
ADITYA 5.2K96V	540Wp	8	1	8	1 or 2	428
ADITYA 7.5K120V	540Wp	7	2	10	1 or 2	641
ADITYA 10K120V	540Wp	8	2	10	1 or 2	855

### SUGGESTED SYSTEM CONFIGURATIONS WITH EXIDE ADITYA GRID-TIE SOLAR PCU

	Solar PCU	No. of MPPT	Solar Module Configuration			Approx. Rooftop Area Required (sq. ft.)
			Rating	Series	No. of Strings	
Single Phase	ADITYA GT-1K	1	335Wp	3	1	106
	ADITYA GT-2K	1	335Wp	6	1	214
	ADITYA GT-3K	1	335Wp	9	1	320
	ADITYA GT-4K	2	335Wp	6	2	427
	ADITYA GT-5K	2	335Wp	8	2	570
Three Phase	ADITYA GT3-5K	2	335Wp	8	2	570
	ADITYA GT3-6K	2	335Wp	9	2	642
	ADITYA GT3-8K	2	335Wp	12	2	855
	ADITYA GT3-10K	2	335Wp	15	2	1070
	ADITYA GT3-15K	2	335Wp	15	3	1604
	ADITYA GT3-20K	2	335Wp	20	3	2138
	ADITYA GT3-25K	2	335Wp	19	4	2708
	ADITYA GT3-33K	3	335Wp	20	5	3564
Single Phase	ADITYA GT-1K	1	540Wp	2	1	80
	ADITYA GT-2K	1	540Wp	4	1	161
	ADITYA GT-3K	1	540Wp	6	1	240
	ADITYA GT-4K	2	540Wp	4	2	320
	ADITYA GT-5K	2	540Wp	5	2	428
Three Phase	ADITYA GT3-5K	2	540Wp	10	1	428
	ADITYA GT3-6K	2	540Wp	12	1	482
	ADITYA GT3-8K	2	540Wp	15	1	641
	ADITYA GT3-10K	2	540Wp	10	2	803
	ADITYA GT3-15K	2	540Wp	14	2	1203
	ADITYA GT3-20K	2	540Wp	13	3	1604
	ADITYA GT3-25K	2	540Wp	16	3	2031
	ADITYA GT3-33K	3	540Wp	21	3	2673