

Who We Are

ADM Orient Solar is a group company of the TPH Orient group of companies established in 1946.

ADM is owned and managed by top industry professionals with immense experience in mechanical and electrical engineering, bringing over 70 years of experience in the same.

At ADM we like to provide our services with highly equipped and geared to manufacture Polycrystalline and Mono Crystalline Solar Photovoltaic Modules for various applications. We act as a principal and lead EPC solution provider for ensuring the completion of each Solar Project

What We Have

ADM SOLAR POWER is a 400MW solar panel manufacturing plant in Delhi NCR which is currently expanding to 1 GW. This is a fully automated plant capable of producing the highest efficiency modules available anywhere in the world.

We have adopted best-in-class technology platforms and have collaborated with leading technology providers.

We manufacture module sizes starting from 2.5 Wp to 700 Wp. These modules are used for various on-grid and off-grid applications.

We have a sole aim to procure the best quality raw material, to produce the most immaculate PV panels available.

We have a technology and vendor-agnostic approach, which allows us to recommend the best solution for all. Our broad-reaching procurement process guarantees you the best technology

Why Choose Us

We are an IEC UL Certified Company. We are impaneled with the Ministry of New & Renewable Energy (MNRE) for all Solar Rooftop, Solar farming & other applications.

We are BIS & ISO Certified Company, also we are doing total EPC Solutions.

Our Infrastructure is segregated into several divisions such as Procurement, Inventory, Quality Control, R&D, Warehousing & Packaging.

We also produce PV Panels as OEM for big companies on a job basis at normal conversion cost.

ADM Tubular Batteries are manufactured with Heat Sealed Polypropylene Co-Polymer Monobloc casing material. Tubular positive plates are made of highly corrosion-resistant special lead alloy and Pasted Negative Plates with high discharge performance to ensure cycling capabilities and also reduce topping-up frequency. Individual cells are fitted with Micro Porous aqua-trap ceramic vent plugs with sealed float, which prevent acid mist from coming out from the cells to make it convenient for living room ambiance.

ADM Tubular Plate Batteries are specially designed for inverter applications and are made with ultra-thick charged plates for long life & performance. They are user-friendly batteries with quick initial charging capability, very low internal resistance, and a steady voltage profile during short & long-duration discharges. The sealed float and ceramic filter plugs help easy maintenance of electrolyte level and ensure no fume emissions. These batteries have great charge acceptance and retention properties even in arduous working conditions.





SOLAR PANELS

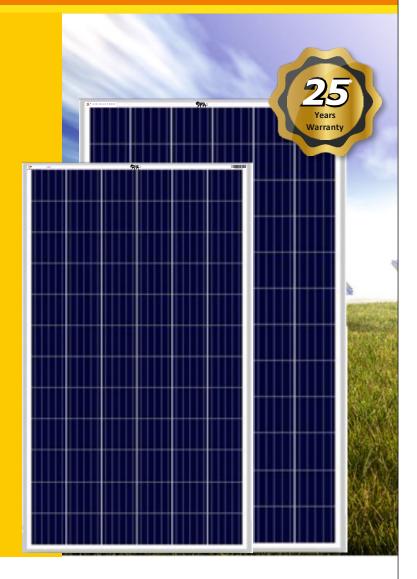


Polycrystalline Solar Panels

This type of solar panel has squares, its angles are not cut, and it has a blue, speckled look. They are made by melting raw silicon, which is faster and cheaper process than that used for monocrystalline panels.

Monocrystalline Solar Panels

This type of solar panel is the purest one. You can easily recognize them from the uniform dark look and the rounded edges. The silicon's high purity causes this type of solar panel to have one of the highest efficiency rates, with the newest ones reaching above 20%.



- Best in class conversion efficiency
- Anti reflective coating and back surface field
- Optically, mechanically and electrically tested
- Advance EVA encapsulation
- Strong light weight Aluminum frame design
- Compliance to IEC standards





















0.62	21.60 1.10 18.72 1.08	1.80	21.9 2.20 19.26	22.32 2.95	22.32 3.60											
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0.58 1.5	1.08		19.26			4.43	4.43	5.90	6.89	8.95	10.16	11.25	8.95	8.45	8.91	9.85
1.5		1.70		18.71	18.5	18.5	18.5	18.4	18.5	19.26	19.88	19.11	31.40	38.52	37.96	42.40
	13.7	🇸	2.09	2.70	3.25	4.10	4.10	5.40	6.5	8.4	9.82	10.47	8.45	8.25	8.89	9.32
6A	· I	16.2	14.01	13.61	14.9	14.18	15.5	14.80	15.10	16.7	16.7	15.2	16.3	17.25	17.30	20.30
	6A	6A	6A	6A	6A	6A	6A	10A	10A	15A	15A	20A	20A	20A	20A	20A
TEMPERTURE COEFFICIENTS																
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36	36	36	36	36	36	36	36	36	36	36	36	72	60	72	72	72
-	-	-	1	1	1	1	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
0.80	1.9	2.50	3.82	4.5	6.9	6.4	6.4	7.5	8.0	13.20	13.20	14.2	18.5	22.5	22.5	22.5
-	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7
-	-	630	630	630	630	630	630	630	630	630	630	940	940	940	940	940
-	-	150	250	275	320	390	390	500	500	750	750	960	980	980	980	980
					\	VARR/	YTU									
						25 YE	ARS				!					
	Gua	arantee	ed Pow	er out	out 909	% first	10 yea	rs and 8	0% for	next 1	5 years	;				
Performance Warranty Guaranteed Power output 90% first 10 years and 80% for next 15 years PACKAGING DETAILS																
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5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
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3	3 5	265 345 44.5 425 17 17 36 36 10.80 1.9 - 10X7	4.5 425 285 17 17 17 36 36 36 0.80 1.9 2.50 - 10X7 10X7 630 - 150 Guarantee 3 3 3 3 5 5 5 5	265 345 665 665 34.5 425 285 425 17 17 17 30 36 36 36 36 36 1 0.80 1.9 2.50 3.82 - 10X7 10X7 10X7 630 630 150 250 Guaranteed Pow	265 345 665 665 665 665 44.5 425 285 425 550 17 17 17 30 30 30 36 36 36 36 36 36 1 1 1 10.80 1.9 2.50 3.82 4.5 - 10X7 10X7 10X7 10X7 - 630 630 630 630 - 150 250 275 Guaranteed Power output	MECHAN 265 345 665 665 665 665 34.5 425 285 425 550 605 17 17 17 30 30 30 36 36 36 36 36 36 36 1 1 1 1.80 1.9 2.50 3.82 4.5 6.9 - 10X7 10X7 10X7 10X7 10X7 - 630 630 630 630 - 150 250 275 320 Cuaranteed Power output 909 PACK 3 3 3 3 3 3 3 3 5 5 5 5 5 5 5	MECHANICAL F 265 345 665 665 665 665 665 44.5 425 285 425 550 605 695 17 17 17 17 30 30 30 30 36 36 36 36 36 36 36 36 1 1 1 1 1.80 1.9 2.50 3.82 4.5 6.9 6.4 - 10X7 10X7 10X7 10X7 10X7 10X7 - 630 630 630 630 630 - 150 250 275 320 390 VARR 25 YE Guaranteed Power output 90% first PACKAGING 3 3 3 3 3 3 3 3 3 3 5 5 5 5 5 5 5 5	600V MECHANICAL PARAM 265 345 665 665 665 665 665 665 665 665 64.5 425 285 425 550 605 695 775 17 17 17 30 30 30 30 30 30 30 30 36 36 36 36 36 36 36 36 36 36 36 36 36	0.048% / -0.39%/° 45°C+2° 600V MECHANICAL PARAMETERS 265 345 665 665 665 665 665 665 665 4.5 425 285 425 550 605 695 775 810 17 17 17 30 30 30 30 30 30 30 36 36 36 36 36 36 36 36 36 36 1 1 1 1 1 1 1 1.80 1.9 2.50 3.82 4.5 6.9 6.4 6.4 7.5 - 10X7 10X7 10X7 10X7 10X7 10X7 10X7 - 630 630 630 630 630 630 630 630 150 250 275 320 390 390 500 WARRANTY 25 YEARS Guaranteed Power output 90% first 10 years and 8 PACKAGING DETAILS 3 3 3 3 3 3 3 3 3 3 3 3 3 3 5 5 5 5 5	MFCHANICAL PARAMETERS 265 345 665 665 665 665 665 665 665 665 44.5 425 285 425 550 605 695 775 810 1125 17 17 17 30 30 30 30 30 30 30 30 36 36 36 36 36 36 36 36 36 36 36 1 1 1 1 1 1 1 1 1 1.880 1.9 2.50 3.82 4.5 6.9 6.4 6.4 7.5 8.0 - 10X7 10X7 10X7 10X7 10X7 10X7 10X7 10X7	0.048% /°C -0.39%/°C 45°C+2°C 1000V 1000V MECHANICAL PARAMETERS 265 345 665 665 665 665 665 665 665 665 665 6	0.048% / °C -0.39%/°C 45°C+2°C 600V MECHANICAL PARAMETERS 665 665 665 665 665 665 665 665 665 66	0.048% /°C -0.39%/°C 45°C+2°C 600V 1000V MECHANICAL PARAMETERS -0.265 345 665 665 665 665 665 665 665 665 665 990 44.5 425 285 425 550 605 695 775 810 1125 1485 1485 1325 17 17 17 17 30 30 30 30 30 30 30 30 30 30 30 35 36 36 36 36 36 36 36 36 36 36 36 36 36 3	0.048% /°C -0.39%/°C 45°C+2°C 600V 1000V MECHANICAL PARAMETERS 5°C **MECHANICAL PARAMETERS 5°C	0.048% /*C -0.39%/*C 45°C+2°C 600V 1000V 1500 MECHANICAL PARAMETERS 5 C 265 345 665 665 665 665 665 665 665 665 665 990 990 990 990 990 990 990 990 990 99	1500V 1000V 1500V 1500



SOLAR INVERTER



This is where your solar inverter comes in. Most homes use alternating current (AC) energy, not DC, so the energy produced by your solar panels isn't useful on its own. When your solar panels collect sunlight and turn it into energy, it gets sent to the inverter, which takes the DC energy and turns it into AC energy.



ADM - KIAN SERIES

| Features

- Intelligent logic control
- Pure sine wave UPS with 85% Efficiency
- ▶ ISOT: Intelligent solar optimization technique
- Inbuilt charge controller with 98% efficiency
- Intelligent battery monitoring
- Battery charging commences at 110Volt
- AC&DC Output



Parameters									
Model No			'XIAN-1100						
Capacity			1100VA						
Operating DC Voltage				12V					
Switching Element			Mosfet						
Charger Topology				ost Mosfet					
Parameters (Solar)									
Switching Element			Mosfet						
Controller			Yes						
Type of Charger			PWM						
Efficiency			≥98%						
Input Voltage Range (Min - Max)Voc			20V-25V					
Maximum PV Power Recommer				1000Wp					
Maximum PV Pannel Recomme				2V x 5 (S)					
Parameters (Grid)			Default Value	Variable Range					
Nominal Grid Voltage				30V/ 50Hz					
Battery Low Buzzer			10.8V	Battery Low Cut +0.2V					
Battery Low Cut			10.6V	10.4V-11.5V					
Battery High Cut			14.4V	13.7V-15.5V					
SPV/Grid Charging Voltag	ge (Boost)	SMF/TUB	13.7V/14.4V	13.5V-14.5V/14V-15.5V					
SPV/Grid Charging Volta	, ,	SMF/TUB	13.7V/13.8V	13.5V-14.5V/13.8V-14.5V					
SPV Charging Current	<u> </u>	10 / 1 0 0	30Amp	5A-50A					
Grid Charging Current			15A	5A-18A					
Grid Reconnect @ Battery Volta	ide		11.7V	11V-12.5V					
Grid Low Cut Voltage	UPS MODI	FENABLE	180V±10V / 100V±10V						
Grid Low Cut Recovery	UPS MODI		190V±10V / 110V±10V						
Grid High Cut Voltage	UPS MODI		270V±10V / 290V±10V						
Grid High Cut Recovery	UPS MODI			0V / 280V±10V					
Changeover (Batt. to Mains)	UPS MODI		200 (21	<5ms					
Changeover (Mains to Batt.)	UPS MODI		<5ms/<12ms						
Parameters (Inverter)	OF O MODE	E EIV (BEE	-01	1107 - 12110					
Output Phase		I		1 Phase					
Nominal Output Voltage				20V±8%					
Max. Output Current				3.1A					
Nominal Frequency			5	0Hz±1%					
Output Waveform				wave (Pure)					
Typical Effciency				≥80%					
Voltage Harmonic			<3% ((Linear Load)					
			>110% 3Time Auto Reset, 4th Time Shut Down						
Over Load Capacity		t	>150% 1st Time Shut Down						
1		t		ortcircuit Protection					
Protection			Overload, Battery Low, Battery High, Output Short Ckt., PV Reverse, Output not OK,Over temperature,Fuse/MCB trip , PV High.						
LED Indication			System ON, UPS/INV	Mode, Solar select, SMF/TUB					
Switches			•	own, Back, Enter(For LCD parameters)					
Display			Battery Voltage, Charging Current, Grid Voltage, Solar Charging current, Output Voltage, Today's Saving(KWH),Total Saving(KWH) Load%, Battery LOW, OverTemp, Working Mode(HYB/PCU lite/PCU Ultra).						
Parameters (Environment)									
Operating Temperature			0-50°C						
Cooling				Fan					
Max. Relative Humidity @25°C	(non Condensi	ng)	95%						
Noise @ 1meter				50dB					
Standard Compliance				IP20					
Weight (Kg)				12.0					
Dimension (with Packing) L x W	√x H(mm)		365 x 350 x 210						



Parameters Model No.			KIAN-1600	KIAN-2100	KIAN-2800					
Model No Capacity			1600VA	2100 VA	2800VA					
Operating DC Voltage			24V							
Switching Element			Z4V Mosfet							
Charger Topology			Boost Mosfet							
Parameters (Solar)			בסטט ויוטטוכנ							
Switching Element			Mosfet							
Controller			Yes							
Type of Charger			PWM							
Efficiency			≥98%							
Input Voltage Range (Min - Max)	Voc		32V-44V 32V-44V							
Maximum PV Power Recommen	ided		2000Wp		2000Wp					
Maximum PV Power Recommen	ıded		330W / 24V x 4 ((S)	330W / 24V x 5 (S)					
Parameters (Grid)			Default Value	•	Variable Range					
Nominal Grid Voltage				230V/ 50H:	z					
Battery Low Buzzer			10.8V		Battery Low Cut +0.2V					
Battery Low Cut			10.6V		10.4V-11.5V					
Battery High Cut			14.4V		13.7V-15.5V					
SPV/Grid Charging Voltag		SMF/TUB	13.7V/14.4V		13.5V-14.5V/14V-15.5V					
SPV/Grid Charging Voltag	ge (Float)	SMF/TUB	13.7V/13.8V		13.5V-14.5V/13.8V-14.5V					
SPV Charging Current			30Amp		5A-50A					
Grid Charging Current			15A	5A-18A						
Grid Reconnect @ Battery Volta	ge		11.7V		11V-12.5V					
Grid Low Cut Voltage	UPS MODE	ENABLE		180V±10V / 100°	V±10V					
Grid Low Cut Recovery	UPS MODE		190V±10V / 110V±10V							
Grid High Cut Voltage	UPS MODE		270V±10V / 290V±10V							
Grid High Cut Recovery	UPS MODE		260V±10V / 280V±10V							
Changeover (Batt. to Mains)	UPS MODE			<5ms						
Changeover (Mains to Batt.)	UPS MODE	ENABLE		<5ms/<12m						
0 : : : :			Parameters (Inverter)							
Output Phase			1 Phase							
Nominal Output Voltage			220V±8% 4.5A 6.3A							
Max. Output Current Nominal Frequency			4.5A 0.5A 50Hz ± 1%							
Output Waveform			Sinewave (Pure)							
Typical Effciency			≥87% ≥85%							
Voltage Harmonic			<3% (Linear Load)							
- woode continues			>110% 3Time Auto Reset, 4th Time Shut Down							
Over Load Capacity		F	>110% Stillle Auto Reset, 4til Time Shut Down							
. ,		ŀ	>150% Output Goes Down							
Protection			Overload, Battery Low, Battery High, Output Short Ckt., PV Reverse, Over temperature, , SPV High.							
LED Indication			Syst	tem ON, UPS Mode, Sola	ar select, SMF/TUB					
Switches			Reset for Systen	n ON/OFF, UP, Down, Ba	ck, Enter(For LCD parameters)					
Display					r Charging current, Output Voltage, Today's erTemp, Working Mode(HYB/PCU lite/PCU Ultra).					
			Parameters (Environment)							
Operating Temperature				0-50°C						
Cooling				Fan						
Max. Relative Humidity @25°C (non Condensin	ng)		95%						
Noise @ 1meter				50dB						
Standard Compliance				IP20						
Weight (Kg)			16.5 18.5 22.5							
Dimension (with Packing) LxW	se billionen)		420 x 390 x 245							



SOLAR INVERTER



Pulse Width Modulated inverters (PWM inverter) replaced the older versions of inverters and has a wide range of applications. Practically these are used in power electronics circuits. The inverters based on the PWM technology possess MOSFETs in the switching stage of the output.



ADM - SUNJOY SERIES

- ▶ DSP-based; fewer components, small size less electricity bill more
- efficiency. Soft Start features; protects appliances at startup.
- Last Fault Display and record: the system records the last fault and you can analyze it.
- The adaptive loss reduction process gives a more efficient charging system.
- 5-stage battery charge control system for lower gassing and faster Charging
- In-built SBM (Smart Battery Management) system to provide a higher degree of battery production & life
- ▶ Battery usage data is recorded for better evaluation of the battery.
- Supply the highest quality pure sine wave power; protects your expensive



Parameters									
Model No			SUNJOY-3800		SUNJOY-5200				
Capacity			3800VA		5200VA				
Operating DC Voltage			48V						
Switching Element			Mosfet						
Charger Topology			Boost Mosfet						
Parameters (Solar)									
Switching Element			Mosfet						
Controller			Yes						
Type of Charger			PWM						
Efficiency			≥98%						
Input Voltage Range (Min - Max)Voc			75V-90V		75V-90V				
Maximum PV Power Recommended			4000Wp		4500Wp				
Maximum PV Power Recommended			330W / 24V x Default Value	8 (S)	330W / 24V x 12 (S)				
	Parameters (Grid)				Variable Range				
Nominal Grid Voltage			10.8V	230V	/ 50Hz				
Battery Low Buzzer					Battery Low Cut +0.2V				
Battery Low Cut			10.6V		10.4V-11.5V				
Battery High Cut			14.4V		13.7V-15.5V				
SPV/Grid Charging Voltage		SMF/TUB	13.7V/14.4V		13.5V-14.5V/14V-15.5V				
SPV/Grid Charging Voltage	e (Float)	SMF/TUB	13.7V/13.8V		13.5V-14.5V/13.8V-14.5V				
SPV Charging Current			30Amp		5A-50A				
Grid Charging Current			15A		5A-18A				
Grid Reconnect @ Battery Voltage			11.7V 11V-12.5V						
Grid Low Cut Voltage		E ENABLE	180V±10V / 100V±10V						
Grid Llich Cut Vallage		E ENABLE	190V±10V / 110V±10V 270V±10V / 290V±10V						
Grid High Cut Voltage		E ENABLE							
Grid High Cut Recovery		E ENABLE E ENABLE			/ 280V±10V				
Changeover (Batt. to Mains) Changeover (Mains to Batt.)		E ENABLE			ms <12ms				
Changeover (Mains to Batt.)	OF 3 INIOD	E ENABLE	Parameters (Invert		12115				
Output Phase			1 Phase						
Nominal Output Voltage			220V±8%						
Max. Output Current			11.0A 17.0A						
Nominal Frequency			50Hz±1%						
Output Waveform			Sinewave (Pure)						
Typical Effciency			≥85% ≥82%						
Voltage Harmonic			<3% (Linear Load)						
			>1	110% 3Time Auto Res	et, 4th Time Shut Down				
Over Load Capacity				>110% 1st Tir	me Shut Down				
			>150% Output Goes Down						
Protection			Overload, Battery Low, Battery High, Output Short Ckt., PV Reverse, Over temperature, , SPV High.						
LED Indication			System ON, UPS Mode, Solar select, SMF/TUB						
Switches			Reset for System ON/OFF, UP, Down, Back, Enter(For LCD parameters)						
Display			Battery Voltage, Charging Current, Grid Voltage, Solar Charging current, Output Voltage, Today's Saving(KWH),Total Saving(KWH) Load%, Battery LOW, OverTemp, Working Mode(HYB/PCU lite/PCU Ultra).						
				Parameters (Environment)				
Operating Temperature			0-50°C						
Cooling				F	an				
Max. Relative Humidity @25°C (no	on Condens	ing)		95	5%				
Noise @ 1meter				50	ldB				
Standard Compliance				IP	20				
Weight (Kg)			32.5		46.5				
Dimension (with Packing) LxWx	H(mm)		430 x 390 x 510 510 x 390 x 630						



Parameters									
Model No		SUNJOY-5201	SUNJO	<i>Y</i> -7500	SL	JNJOY-10000			
Capacity		5200VA	7500)VA		10000VA			
Operating DC Voltage			96V			120V			
Switching Element		Mosfet IGBT							
Charger Topology			Boost IGBT						
Parameters (Solar)			Boost Mosfet						
Switching Element		Mosfet							
Controller		Yes							
Type of Charger		PWM							
Efficiency		≥98%							
Input Voltage Range (Min - Max)Voc	140V-180V 170V-225V							
Maximum PV Power Recommer		9000Wp	9000Wp	9000Wp		10500Wp			
Maximum PV Power Recommer		330W / 24V x 15 (S)	330W / 24V x 20 (S)	330W / 24V x 2	20 (S)	330W / 24V x 32 (S)			
Parameters (Grid)	1000	Default Value	(0)	Variable	Range	000111 / 2111 11 02 (0)			
Nominal Grid Voltage		Belault Value	23	0V/ 50Hz	ritarigo				
Battery Low Buzzer		10.8V		Battery Low	Cut +0.2\	V			
Battery Low Cut		10.6V		10.4V-1		•			
Battery High Cut		14.4V		13.7V-					
SPV/Grid Charging Voltage	ge (Boost) SMF/TUB	13.7V/14.4V				V			
SPV/Grid Charging Volta	· —	13.7V/13.8V							
SPV Charging Current	9- (- 1966) GWI / TOB	30Amp				∪ v			
Grid Charging Current		30Amp 5A-50A 15A 5A-18A							
Grid Reconnect @ Battery Volta	ao.	11.7V 11V-12.5V							
Grid Low Cut Voltage	UPS MODE ENABLE	180V±10V / 100V±10V							
Grid Low Cut Recovery		190V±10V / 110V±10V							
Grid High Cut Voltage	, , , , , , , , , , , , , , , , , , , ,								
Grid High Cut Recovery	UPS MODE ENABLE UPS MODE ENABLE			0V / 290V±10V 0V / 280V±10V					
Changeover (Batt. to Mains)	UPS MODE ENABLE		200V±1	<5ms					
Changeover (Mains to Batt.)	UPS MODE ENABLE			ns/<12ms					
Changeover (Mains to Batt.)	OFS MODE LIVABLE	Parameters (115/~ 121115					
output Phase		T at attleters (•	l Phase					
Nominal Output Voltage				20V±8%					
Max. Output Current		17.0A 27.0A 35.0A							
Nominal Frequency		50Hz±1%							
Output Waveform				wave (Pure)					
Typical Effciency		≥86% ≥88% ≥90%							
Voltage Harmonic		<3% (Linear Load)							
ronaya Harriwillo		>110% 3Time Auto Reset, 4th Time Shut Down							
Over Load Capacity		>110% 31ille Auto Reset, 4til Time Shut Down							
	ł	>150% Output Goes Down							
Protection		Overload, Battery Low, Battery High, Output Short Ckt., PV Reverse, Over temperature, , SPV High.							
LED Indication		System ON, UPS Mode, Solar select, SMF/TUB							
Switches		Reset for System ON/OFF, UP, Down, Back, Enter(For LCD parameters)							
Display		Battery Voltage, Cha Saving(KWH),Total Saving	arging Current, Grid Volta (KWH) Load%, Battery L	ge, Solar Charging c	urrent, Ou	,			
		Parameters (Environment)							
Operating Temperature		0-50°C							
Cooling				Fan					
Max. Relative Humidity @25°C (non Condensing)	95%							
Noise @ 1meter				50dB					
Standard Compliance			ı	IP20					
Weight (Kg)		4	6.5	59.0	68	3.5			
Dimension (with Packing) L x W	x H(mm)		510 :	x 390 x 630					



SOLAR INVERTER



An efficient maximum power point tracking (MPPT) method plays an important role to improve the efficiency of a photovoltaic (PV) generation system. This study provides an extensive review of the current status of MPPT methods for PV systems which are classified into eight categories. The category is based on the tracking characteristics of the discussed methods.

ADM - DHRITI SERIES MPPT SYSTEMS



- Big Data Big Display
- Built-in Energy Meter
- Maximized Solar Usage through Intelligent modes.
- ▶ 40% fewer panels are required than other PCUs
- RS-232 (Industrial Standard MODBUS)
- Incorporated with Microchip and ST DSP Engines
- Safety and Protections
- IGBT-based design and Fast Charging
- Wide range MPPT Input6 Stage Battery Charging

- Multiple Battery Selection
- Sleek & Aesthetic design
- Works as standalone Solar Inverter in case of No-Grid



			ADM - S	OLAR MPPT PCU					
				cal Specifications					
Parameters	Units				Rating				
Model	Dhriti	1KVA	1KVA/2KVA/2.5KVA	2KVA	3KVA/5KVA	5KVA/7.5KVA	7.5KVA/10KVA	10KVA	15KVA
Operating DC Voltage	Volts	12	24	48	48	96	120	180	240
			SP\	√ Parameters					
SPV Open Circuit Voltage Range (Min-Max)	Volts	18-45	36-90	72-180	72-180	144-360	180-450	270-450	360-600
Max SPV Power	KW	1	1.2/2	1/1	3.5/5.5	5.5/8	8/12	12	15
Compatible SPV Panels					36 / 60 / 72 Cell				
			MPPT Base	ed Charge Control	ler				
Switching Element					IGBT Module				
Controller					DSP				
Efficiency					> 95%				
Battery Charging Stages				5 (Softstart, E	loost, Absorbtion, Floa	t, Equalise)			
				Battery					
Low Cut Off	Volts				10.5 / Battery +/-	2%			
Low Cut Off Recovery	Volts				11.5 / Battery +/-				
Low Buzzer	Volts				10.7 / Battery +/-				
High Cut Off	Volts				15.5 / Battery +/-				
High Cut Off Recovery	Volts				15.0 / Battery */-				
Boost Charging Volt by SPV(TUB)	Volts				14.5 / Battery */-				
Boost Charging Volt by Grid(TUB)	Volts				14.0 / Battery */-				
Charging Current by Grid	Amps				10A +/-2%	m = F			
	4mps %				0.02				
No Load Battery Current	-70			Output	0.02				
Outrot O No Lond	37.11.			Output	220 - (20)				
Output@ No load	Volts				230 +/-2%				
Output Frequency	Hz		2 5 17 12 5		50 +/-2%		2521212		
	Amps	3.5	3.5/7/8.5	7	10.5/17.4	17.4 / 26.0	26.0 / 34.8	34.8	52.2
Overload	Watts	800W	800W/1.6KW/2KW	1.6KW	2.4KW / 4KW	4KW / 6KW	6KW / 8KW	8KW	12KW
Output Low Retry	-				1 Time				
Output Short Circuit	-				1 Time				
				Grid					
No of Phase	-				1Phase-3Wire P				
Voltage Range(Inverter Mode)	٧				100-280 +/-29	6			
Voltage Range(UPS Mode)	V				175-255 +/-29				
Frequency Range	Hz				45 - 55 +/-2%				
				Display					
Pionley	Alphanu		16X2 LCD			20X4 LCD			
Display	meric Output		16X2 LCD			2074 LCD	'		
	(Inverter)			Volt	age, Current, Power ar	nd Frequency			
	Input				3-,	, , , ,			
	(Grid)				Voltage and Frequ	ency			
	Solar			Voltage	, Current, Power and E	nergy (Optional)			
	Battery				Voltage, Currer	nt			
	Status/Fa								
Parameters	ults		Inverter Statu	s, Mains Status, Cl	harger Status, Solar St	atus and Battery	Status/Charging	Stages	
				Inverter					
Switching Element									
<u> </u>	-		M ¹	OSFET			IGBT Mo	dule	
Output voltage	- Volts		M	OSFET	230 +/-2%		IGBT Mo	dule	
			M	OSFET	230 +/-2% 1Phase-3Wire P,	N,E	IGBT Mo	dule	
Output voltage	Volts		M				IGBT Mor	dule	
Output voltage Phase	Volts -		M		1Phase-3Wire P.		IGBT Mor	dule	
Output voltage Phase Output Waveform Frequency	Volts - -		Mi		1Phase-3Wire P. Digitally Filtered Pure S		IGBT Mo	dule	
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter)	Volts Hz ms		M		1Phase-3Wire P Digitally Filtered Pure S 50 +/- 2%		IGBT Moi	dule	
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter) Output Power Factor	Volts Hz		Mi		1Phase-3Wire P. Digitally Filtered Pure S 50 +/- 2% <10ms 0.8		IGBT Moi	dule	
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter) Output Power Factor Overload Retry	Volts Hz ms Pf			С	1Phase-3Wire P. Digitally Filtered Pure S 50 +/- 2% <10ms 0.8 3 Times	Sine Wave		dule	
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter) Output Power Factor Overload Retry Switches	Volts Hz ms Pf		Sys	E tem ON/OFF, Mode	1Phase-3Wire P. Digitally Filtered Pure S 50 +/- 2% <10ms 0.8 3 Times e Selection: Hybrid / PG	Sine Wave	UPS Selection	dule	
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter) Output Power Factor Overload Retry Switches Indication (LED)	Volts Hz ms Pf		Sys	tem ON/OFF, Mod ter On, Mains In R	1Phase-3Wire P. Digitally Filtered Pure S 50 +/- 2% <10ms 0.8 3 Times e Selection: Hybrid / Polange, Battery Low/Hig	Sine Wave CU / Smart, INV / h, Charger On, O	UPS Selection verload, Faults	dule	
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter) Output Power Factor Overload Retry Switches	Volts Hz ms Pf	Operload	Sys	tem ON/OFF, Mod ter On, Mains In R Battery Low, Ove	1Phase-3Wire P. Digitally Filtered Pure S 50 +/- 2% <10ms 0.8 3 Times e Selection: Hybrid / Polange, Battery Low/Higrload, Charger On, Inve	CU / Smart, INV / h, Charger On, O rter On, Solar Cl	UPS Selection verload, Faults harger On		Rattery O
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter) Output Power Factor Overload Retry Switches Indication (LED) Alarm (Audible)	Volts Hz ms Pf	Overload,	Sys Invei Short Circuit Protection,	tem ON/OFF, Mod ter On, Mains In R Battery Low, Ove Over Voltage, SP	1Phase-3Wire P. Digitally Filtered Pure S 50 +/- 2% <10ms 0.8 3 Times e Selection: Hybrid / Pt tange, Battery Low/Hig rload, Charger On, Inve V Surge and Transient	CU / Smart, INV / h, Charger On, O erter On, Solar Cl protection (MOV	UPS Selection verload, Faults harger On Varistors), Revers		Battery, Ovi
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter) Output Power Factor Overload Retry Switches Indication (LED) Alarm (Audible)	Volts Hz ms Pf	Overload,	Sys Invei Short Circuit Protection,	tem ON/OFF, Mod ter On, Mains In R Battery Low, Ove Over Voltage, SP' temperature Prote	1Phase-3Wire P. Digitally Filtered Pure S 50 +/- 2% <10ms 0.8 3 Times e Selection: Hybrid / PC tange, Battery Low/Hig rload, Charger On, Inve V Surge and Transient ction, Under Voltage a	CU / Smart, INV / h, Charger On, O erter On, Solar Cl protection (MOV nd Over Voltage	UPS Selection verload, Faults harger On Varistors), Revers		Battery, Ov
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter) Output Power Factor Overload Retry Switches Indication (LED) Alarm (Audible) Protection Cooling	Volts - Hz ms Pf	Overload,	Sys Invei Short Circuit Protection,	tem ON/OFF, Mod ter On, Mains In R Battery Low, Ove Over Voltage, SP' temperature Prote Fo	1Phase-3Wire P. Digitally Filtered Pure S 50 +/- 2% <10ms 0.8 3 Times e Selection: Hybrid / PC lange, Battery Low/Hig rload, Charger On, Inve V Surge and Transient ction, Under Voltage a	CU / Smart, INV / h, Charger On, O erter On, Solar Cl protection (MOV nd Over Voltage Controlled)	UPS Selection verload, Faults harger On Varistors), Revers Protection		Battery, Ov
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter) Output Power Factor Overload Retry Switches Indication (LED) Alarm (Audible) Protection Cooling Communication	Volts Hz ms Pf	Overload,	Sys Invei Short Circuit Protection,	tem ON/OFF, Mod ter On, Mains In R Battery Low, Ove Over Voltage, SP' temperature Prote Fo	1Phase-3Wire P. Digitally Filtered Pure S 50 +/- 2% <10ms 0.8 3 Times e Selection: Hybrid / PC range, Battery Low/Hig rload, Charger On, Inve V Surge and Transient ction, Under Voltage a reed Air cooling(Temp ng System (Over GPRS	CU / Smart, INV / h, Charger On, O erter On, Solar Cl protection (MOV nd Over Voltage Controlled)	UPS Selection verload, Faults harger On Varistors), Revers Protection		Battery, Ov
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter) Output Power Factor Overload Retry Switches Indication (LED) Alarm (Audible) Protection Cooling Communication Operating Temp	Volts - Hz ms Pf	Overload,	Sys Invei Short Circuit Protection,	tem ON/OFF, Mod ter On, Mains In R Battery Low, Ove Over Voltage, SP' temperature Prote Fo	1Phase-3Wire P. Digitally Filtered Pure S 50 +/- 2% <10ms 0.8 3 Times e Selection: Hybrid / Pt lange, Battery Low/Hig rload, Charger On, Inve V Surge and Transient ction, Under Voltage a rced Air cooling(Temp ng System (Over GPRS 0-50	CU / Smart, INV / h, Charger On, O erter On, Solar Cl protection (MOV nd Over Voltage Controlled)	UPS Selection verload, Faults harger On Varistors), Revers Protection		Battery, Ovi
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter) Output Power Factor Overload Retry Switches Indication (LED) Alarm (Audible) Protection Cooling Communication Operating Temp Operating Humidity	Volts Hz ms Pf	Overload,	Sys Invei Short Circuit Protection,	tem ON/OFF, Mod ter On, Mains In R Battery Low, Ove Over Voltage, SP' temperature Prote Fo	1Phase-3Wire P. Digitally Filtered Pure S 50 +/- 2% <10ms 0.8 3 Times e Selection: Hybrid / Pk lange, Battery Low/Hig rload, Charger On, Inve V Surge and Transient ction, Under Voltage a rced Air cooling (Temp ng System (Over GPRS 0-50 95	CU / Smart, INV / h, Charger On, O erter On, Solar Cl protection (MOV nd Over Voltage Controlled)	UPS Selection verload, Faults harger On Varistors), Revers Protection		Battery, Ove
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter) Output Power Factor Overload Retry Switches Indication (LED) Alarm (Audible) Protection Cooling Communication Operating Temp	Volts - Hz ms Pf		Sys Inver	tem ON/OFF, Mod ter On, Mains In R Battery Low, Ove Over Voltage, SP' temperature Prote Fo	1Phase-3Wire P. Digitally Filtered Pure S 50 +/- 2% <10ms 0.8 3 Times e Selection: Hybrid / Pt lange, Battery Low/Hig rload, Charger On, Inve V Surge and Transient ction, Under Voltage a rced Air cooling(Temp ng System (Over GPRS 0-50	CU / Smart, INV / h, Charger On, O erter On, Solar Cl protection (MOV nd Over Voltage Controlled)	UPS Selection verload, Faults harger On Varistors), Revers Protection	se Polarity of	Battery, Ove
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter) Output Power Factor Overload Retry Switches Indication (LED) Alarm (Audible) Protection Cooling Communication Operating Temp Operating Humidity	Volts Hz ms Pf	Overload, 355x330x2 05	Sys Inver	tem ON/OFF, Mod ter On, Mains In R Battery Low, Ove Over Voltage, SP' temperature Prote Fo	1Phase-3Wire P. Digitally Filtered Pure S 50 +/- 2% <10ms 0.8 3 Times e Selection: Hybrid / Pk lange, Battery Low/Hig rload, Charger On, Inve V Surge and Transient ction, Under Voltage a rced Air cooling (Temp ng System (Over GPRS 0-50 95	CU / Smart, INV / h, Charger On, O erter On, Solar Cl protection (MOV nd Over Voltage Controlled)	UPS Selection verload, Faults harger On Varistors), Revers Protection		
Output voltage Phase Output Waveform Frequency Changeover (Mains to Inverter) Output Power Factor Overload Retry Switches Indication (LED) Alarm (Audible) Protection Cooling Communication Operating Temp Operating Humidity Protection class	Volts	355×330×2	Sys Inver Short Circuit Protection	tem ON/OFF, Mod- ter On, Mains In R Battery Low, Ove Over Voltage, SP temperature Prote Fo Remote Monitori	1Phase-3Wire P. Digitally Filtered Pure S 50 +/- 2% <10ms 0.8 3 Times e Selection: Hybrid / Polange, Battery Low/Higrload, Charger On, Inve V Surge and Transient cition, Under Voltage a rced Air cooling(Temp ng System (Over GPRS 0-50 95 IP20	CU / Smart, INV / h, Charger On, O erter On, Solar Ci protection (MOV nd Over Voltage Controlled) / BLE and Wifi)	UPS Selection verload, Faults harger On Varistors), Revers Protection or RS232	se Polarity of	750×500×3



BATTERY

Looking for a high-performance inverter battery for your home? ADM has come up

with an amazing, high-performance inverter battery for home, office & shops, i.e., latest innovation in inverter batteries that offers longer service life and longer backup. It is designed with thick tubular plates which are best suited to provide backup in frequent/ long power cut areas.

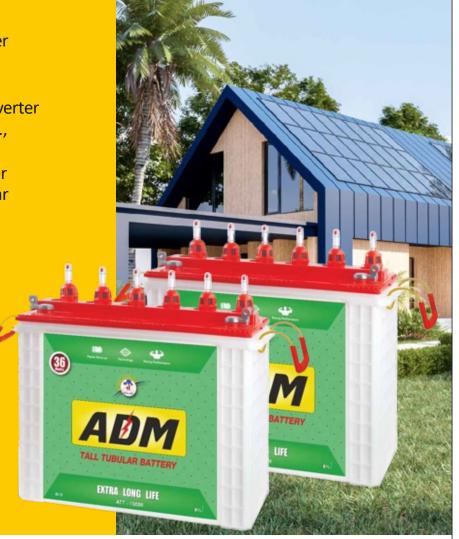












- Quick charged
- Suitable for frequent power-cuts
- Tubular-designed positive plates provide long life
- Very low maintenance & long life
- Eco-friendly aqua trap vent plugs to ensure no acid fumes
- Electrolyte contains special additives to get quick recovery from deep discharge
- Excellent charge acceptance



Technical Specifications

Model	Nominal	Capacity	Di	Warranty		
	Voltage	capacity	Length	Width	Total Height	warranty
ADM S1750	12V	165Ah	505	190	410	60M
ADM 1750	12V	165Ah	505	190	410	36+24M
ADM S2100	12V	200Ah	505	190	410	60M
ADM 2100	12V	200Ah	505	190	410	36+24M
ADM 1800	12V	165Ah	505	190	410	36M
ADM 2200	12V	200Ah	505	190	410	36M

^{*}For more details see warranty manual.

