



ENERGY SYSTEM DESIGN AND INSTALLATION



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 800MW solar panel manufacturing plant in Delhi NCR which is currently expanding to 2.8 GW modules and 2.4 GW cells. 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.





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%.



Features

- ▶ 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



TECHNICAL SPECIFICATION



Pmax (w)	10	20	30	40	50	60	75	80	100	120	165	195	200	265	330	335	395
ELECTRICAL PARAMTERS																	
Voc (V)	19.84	21.60	21.60	21.9	22.32	22.32	22.32	22.32	22.32	23.40	32.40	24.00	23.40	37.20	44.14	48.00	48.39
Isc (A)	0.62	1.10	1.80	2.20	2.95	3.60	4.43	4.43	5.90	6.89	8.95	10.16	11.25	8.95	8.45	8.91	9.85
Vpmx (V)	17.25	18.72	18.00	19.26	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
Ipmx (A)	0.58	1.08	1.70	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
Eff (+/-)	1.5	13.7	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
Diode Rating	6A	6A	6A	6A	6A	6A	6A	6A	10A	10A	15A	15A	20A	20A	20A	20A	20A
TEMPERTURE COEFFICIENTS																	
Tk Voltage	-0.29% / °C 0.048% / °C -0.39%/°C 45°C+2°C																
Tk Current																	
Tk Power																	
NOCT																	
Max System Voltage (V)	45°C+2°C																
Temperature Range	600V					1000V								1500V			
	-40°C to +85°C																
MECHANICAL PARAMETERS																	
Module Width -W (mm)																	
Module Height -H (mm)	265	345	665	665	665	665	665	665	665	665	665	665	990	990	990	990	990
Module Thickness-T (mm)	34.5	425	285	425	550	605	695	775	810	1125	1485	1485	1325	1640	1960	1960	1960
Cell in Series	17	17	17	30	30	30	30	30	30	30	30	30	35	35	35	35	35
Cell Size Tolerance +/-2%	36	36	36	36	36	36	36	36	36	36	36	36	72	60	72	72	72
Module Weight (kgs)	-	-	-	1	1	1	1	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Mounting Hole Dimension (mm)	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
Mounting Hole (X-Axis) (mm)	-	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7	10X7
Mounting Hole (Y-Axis) (Dist.) between two holes (mm)	-	-	630	630	630	630	630	630	630	630	630	630	940	940	940	940	940
Junction Box	-	-	150	250	275	320	390	390	500	500	750	750	960	980	980	980	980
							WARRANTY										
	25 YEARS																
Performance Warranty	Guaranteed Power output 90% first 10 years and 80% for next 15 years																
PACKAGING DETAILS																	
Ply in Single																	
Ply in Master	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total Nos of Module in Master	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	10	10	10	5	5	5	5	5	5	5	3	3	2	2	2	2	2



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

TECHNICAL SPECIFICATION



Parameters			
Model No		KIAN-1100	
Capacity		1100VA	
Operating DC Voltage		12V	
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		20V-25V	
Maximum PV Power Recommended		1000Wp	
Maximum PV Pannel Recommended		165W / 12V x 5 (S)	
Parameters (Grid)		Default Value	Variable Range
Nominal Grid Voltage		230V/ 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 Voltage (Boost)	SMF/TUB	13.7V/14.4V	13.5V-14.5V/14V-15.5V
SPV/Grid Charging Voltage (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	UPS MODE ENABLE	180V±10V / 100V±10V	
Grid Low Cut Recovery	UPS MODE ENABLE	190V±10V / 110V±10V	
Grid High Cut Voltage	UPS MODE ENABLE	270V±10V / 290V±10V	
Grid High Cut Recovery	UPS MODE ENABLE	260V±10V / 280V±10V	
Changeover (Batt. to Mains)	UPS MODE ENABLE	<5ms	
Changeover (Mains to Batt.)	UPS MODE ENABLE	<5ms/<12ms	
Parameters (Inverter)			
Output Phase		1 Phase	
Nominal Output Voltage		220V±8%	
Max. Output Current		3.1A	
Nominal Frequency		50Hz±1%	
Output Waveform		Sinewave (Pure)	
Typical Efficiency		≥80%	
Voltage Harmonic		<3% (Linear Load)	
Over Load Capacity		>110% 3Time Auto Reset, 4th Time Shut Down	
		>150% 1st Time Shut Down	
		>200% Shortcircuit 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		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		Fan	
Max. Relative Humidity @25°C (non Condensing)		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
Capacity		1600VA	2100 VA	2800VA
Operating DC Voltage		24V		
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		32V-44V	32V-44V	
Maximum PV Power Recommended		2000Wp	2000Wp	
Maximum PV Power Recommended		330W / 24V x 4 (S)	330W / 24V x 5 (S)	
Parameters (Grid)		Default Value	Variable Range	
Nominal Grid Voltage		230V/ 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 Voltage (Boost)	SMF/TUB	13.7V/14.4V	13.5V-14.5V/14V-15.5V	
SPV/Grid Charging Voltage (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	UPS MODE ENABLE	180V±10V / 100V±10V		
Grid Low Cut Recovery	UPS MODE ENABLE	190V±10V / 110V±10V		
Grid High Cut Voltage	UPS MODE ENABLE	270V±10V / 290V±10V		
Grid High Cut Recovery	UPS MODE ENABLE	260V±10V / 280V±10V		
Changeover (Batt. to Mains)	UPS MODE ENABLE	<5ms		
Changeover (Mains to Batt.)	UPS MODE ENABLE	<5ms/<12ms		
Parameters (Inverter)				
Output Phase		1 Phase		
Nominal Output Voltage		220V±8%		
Max. Output Current		4.5A	6.3A	
Nominal Frequency		50Hz±1%		
Output Waveform		Sinewave (Pure)		
Typical Efficiency		≥87%	≥85%	
Voltage Harmonic		<3% (Linear Load)		
Over Load Capacity	>110% 3Time Auto Reset, 4th Time Shut Down			
	>110% 1st Time 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		Fan		
Max. Relative Humidity @25°C (non Condensing)		95%		
Noise @ 1meter		50dB		
Standard Compliance		IP20		
Weight (Kg)		16.5	18.5	22.5
Dimension (with Packing) L x W x H(mm)		420 x 390 x 245		



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



| Features

- ▶ 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

TECHNICAL SPECIFICATION



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 8 (S)	330W / 24V x 12 (S)	
Parameters (Grid)		Default Value		Variable Range
Nominal Grid Voltage		230V/ 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 Voltage (Boost)	SMF/TUB	13.7V/14.4V	13.5V-14.5V/14V-15.5V	
SPV/Grid Charging Voltage (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	UPS MODE ENABLE	180V±10V / 100V±10V		
Grid Low Cut Recovery	UPS MODE ENABLE	190V±10V / 110V±10V		
Grid High Cut Voltage	UPS MODE ENABLE	270V±10V / 290V±10V		
Grid High Cut Recovery	UPS MODE ENABLE	260V±10V / 280V±10V		
Changeover (Batt. to Mains)	UPS MODE ENABLE	<5ms		
Changeover (Mains to Batt.)	UPS MODE ENABLE	<5ms/<12ms		
Parameters (Inverter)				
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 Efficiency		≥85%	≥82%	
Voltage Harmonic		<3% (Linear Load)		
Over Load Capacity		>110% 3Time Auto Reset, 4th Time Shut Down		
		>110% 1st Time 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		Fan		
Max. Relative Humidity @25°C (non Condensing)		95%		
Noise @ 1meter		50dB		
Standard Compliance		IP20		
Weight (Kg)		32.5	46.5	
Dimension (with Packing) L x W x H(mm)		430 x 390 x 510	510 x 390 x 630	

TECHNICAL SPECIFICATION



Parameters					
Model No		SUNJOY-5201		SUNJOY-7500	SUNJOY-10000
Capacity		5200VA		7500VA	10000VA
Operating DC Voltage		96V			120V
Switching Element		Mosfet			IGBT
Charger Topology		Boost Mosfet			Boost IGBT
Parameters (Solar)					
Switching Element					Mosfet
Controller					Yes
Type of Charger					PWM
Efficiency					≥98%
Input Voltage Range (Min - Max)Voc		140V-180V		170V-225V	
Maximum PV Power Recommended		9000Wp	9000Wp	9000Wp	10500Wp
Maximum PV Power Recommended		330W / 24V x 15 (S)	330W / 24V x 20 (S)	330W / 24V x 20 (S)	330W / 24V x 32 (S)
Parameters (Grid)		Default Value		Variable Range	
Nominal Grid Voltage		230V/ 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 Voltage (Boost)	SMF/TUB	13.7V/14.4V		13.5V-14.5V/14V-15.5V	
SPV/Grid Charging Voltage (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	UPS MODE ENABLE	180V±10V / 100V±10V			
Grid Low Cut Recovery	UPS MODE ENABLE	190V±10V / 110V±10V			
Grid High Cut Voltage	UPS MODE ENABLE	270V±10V / 290V±10V			
Grid High Cut Recovery	UPS MODE ENABLE	260V±10V / 280V±10V			
Changeover (Batt. to Mains)	UPS MODE ENABLE	<5ms			
Changeover (Mains to Batt.)	UPS MODE ENABLE	<5ms/<12ms			
Parameters (Inverter)					
output Phase		1 Phase			
Nominal Output Voltage		220V±8%			
Max. Output Current		17.0A	27.0A	35.0A	
Nominal Frequency		50Hz±1%			
Output Waveform		Sinewave (Pure)			
Typical Efficiency		≥86%	≥88%	≥90%	
Voltage Harmonic		<3% (Linear Load)			
Over Load Capacity		>110% 3Time Auto Reset, 4th Time Shut Down			
		>110% 1st Time 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		Fan			
Max. Relative Humidity @25°C (non Condensing)		95%			
Noise @ 1meter		50dB			
Standard Compliance		IP20			
Weight (Kg)		46.5	59.0	68.5	
Dimension (with Packing) L x W x H(mm)		510 x 390 x 630			



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



| Features

- ▶ 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 Input 6 Stage Battery Charging
- ▶ Multiple Battery Selection
- ▶ Sleek & Aesthetic design
- ▶ Works as standalone Solar Inverter in case of No-Grid

TECHNICAL SPECIFICATION



ADM - SOLAR MPPT PCU									
Technical 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
SPV 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 Based Charge Controller									
Switching Element	IGBT Module								
Controller	DSP								
Efficiency	> 95%								
Battery Charging Stages	5 (Softstart, Boost, Absorbtion, Float, Equalise)								
Battery									
Low Cut Off	Volts	10.5 / Battery +/-2%							
Low Cut Off Recovery	Volts	11.5 / Battery +/-2%							
Low Buzzer	Volts	10.7 / Battery +/-2%							
High Cut Off	Volts	15.5 / Battery +/-2%							
High Cut Off Recovery	Volts	15.0 / Battery +/-2%							
Boost Charging Volt by SPV(TUB)	Volts	14.5 / Battery +/-2%							
Boost Charging Volt by Grid(TUB)	Volts	14.0 / Battery +/-2%							
Charging Current by Grid	Amps	10A +/-2%							
No Load Battery Current	%	0.02							
Output									
Output@ No load	Volts	230 +/-2%							
Output Frequency	Hz	50 +/-2%							
Overload	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
	Watts	800W	800W/1.6KW/2KW	1.6KW	2.4KW / 4KW	4KW / 6KW	6KW / 9KW	8KW	12KW
Output Low Retry	-	1 Time							
Output Short Circuit	-	1 Time							
Grid									
No of Phase	-	1Phase-3Wire P.N.E							
Voltage Range(Inverter Mode)	V	100-280 +/-2%							
Voltage Range(UPS Mode)	V	175-255 +/-2%							
Frequency Range	Hz	45 - 55 +/-2%							
Display									
Display	Alphamu meric	16X2 LCD			20X4 LCD				
Parameters	Output (Inverter)	Voltage, Current, Power and Frequency							
	Input (Grid)	Voltage and Frequency							
	Solar	Voltage, Current, Power and Energy (Optional)							
	Battery	Voltage, Current							
	Status/Fa ults	Inverter Status, Mains Status, Charger Status, Solar Status and Battery Status/Charging Stages							
	Inverter								
Switching Element	-	MOSFET				IGBT Module			
Output voltage	Volts	230 +/-2%							
Phase	-	1Phase-3Wire P.N.E							
Output Waveform	-	Digitally Filtered Pure Sine Wave							
Frequency	Hz	50 +/- 2%							
Changeover (Mains to Inverter)	ms	<10ms							
Output Power Factor	Pf	0.8							
Overload Retry	-	3 Times							
Switches	-	System ON/OFF, Mode Selection: Hybrid / PCU / Smart, INV/UPS Selection							
Indication (LED)	-	Inverter On, Mains In Range, Battery Low/High, Charger On, Overload, Faults							
Alarm (Audible)	-	Battery Low, Overload, Charger On, Inverter On, Solar Charger On							
Protection	-	Overload, Short Circuit Protection, Over Voltage, SPV Surge and Transient protection (MOV Varistors), Reverse Polarity of Battery, Over temperature Protection, Under Voltage and Over Voltage Protection							
Cooling	-	Forced Air cooling(Temp Controlled)							
Communication	-	Remote Monitoring System (Over GPRS / BLE and Wifi) or RS232							
Operating Temp	C	0-50							
Operating Humidity	%	95							
Protection class	-	IP20							
Dimension(LXWXH)	mm	355x330x205	355x330x205	510x460x305	510x460x305	750x500x350	750x500x350	750x500x350	750x500x30
Weight	kg	18	21	31.5	40	52	63	71	85
Note: Technical Specs are subject to change with prior notice, because of continuous development and improvement in design and technology.									

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.



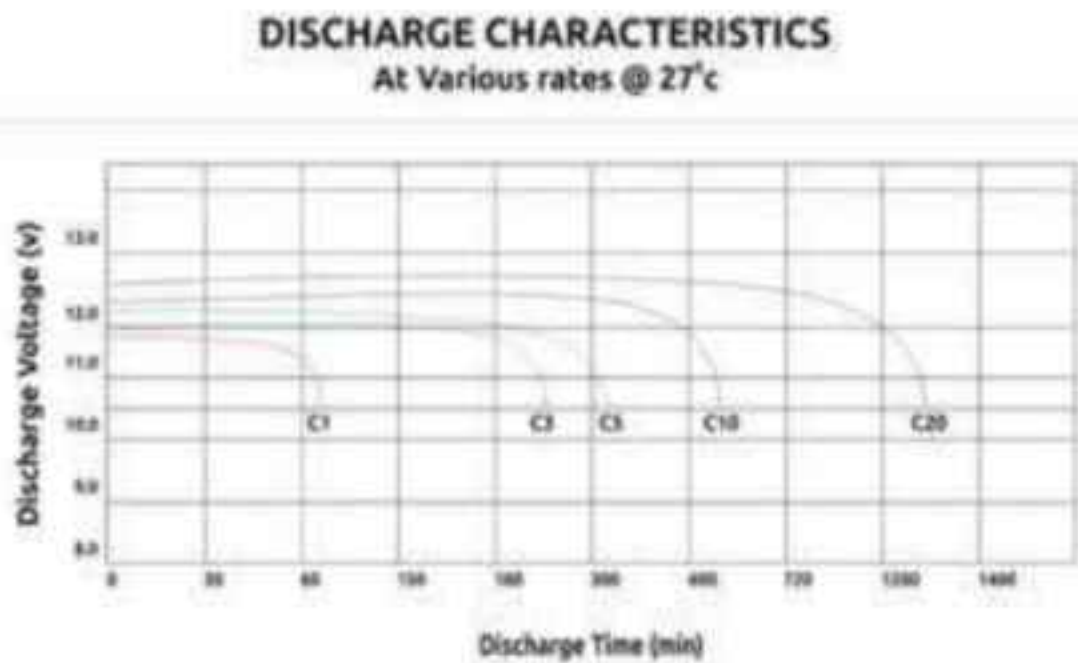
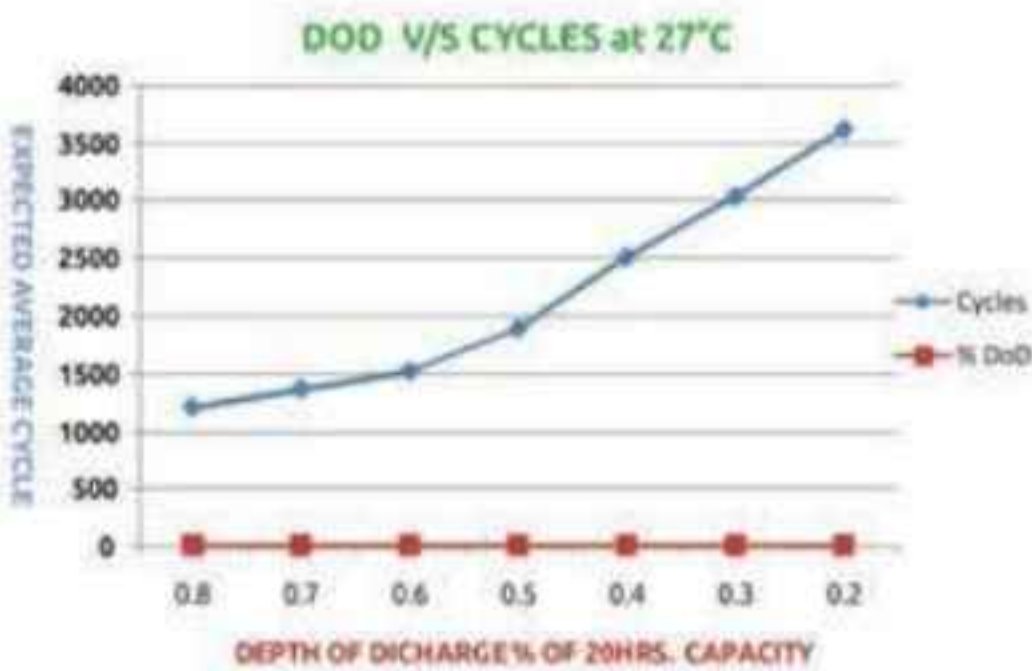
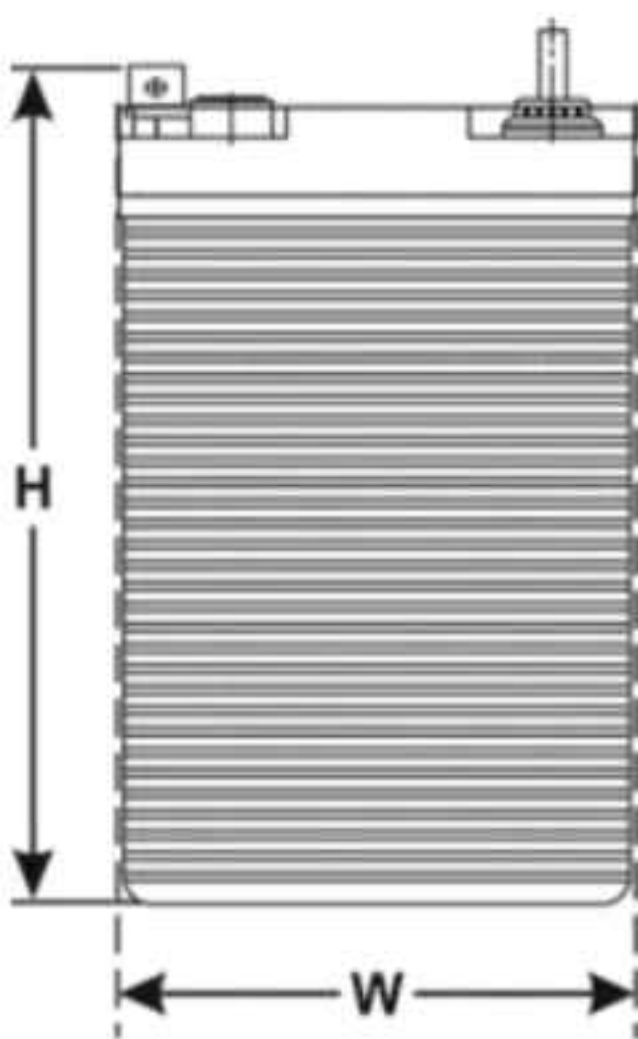
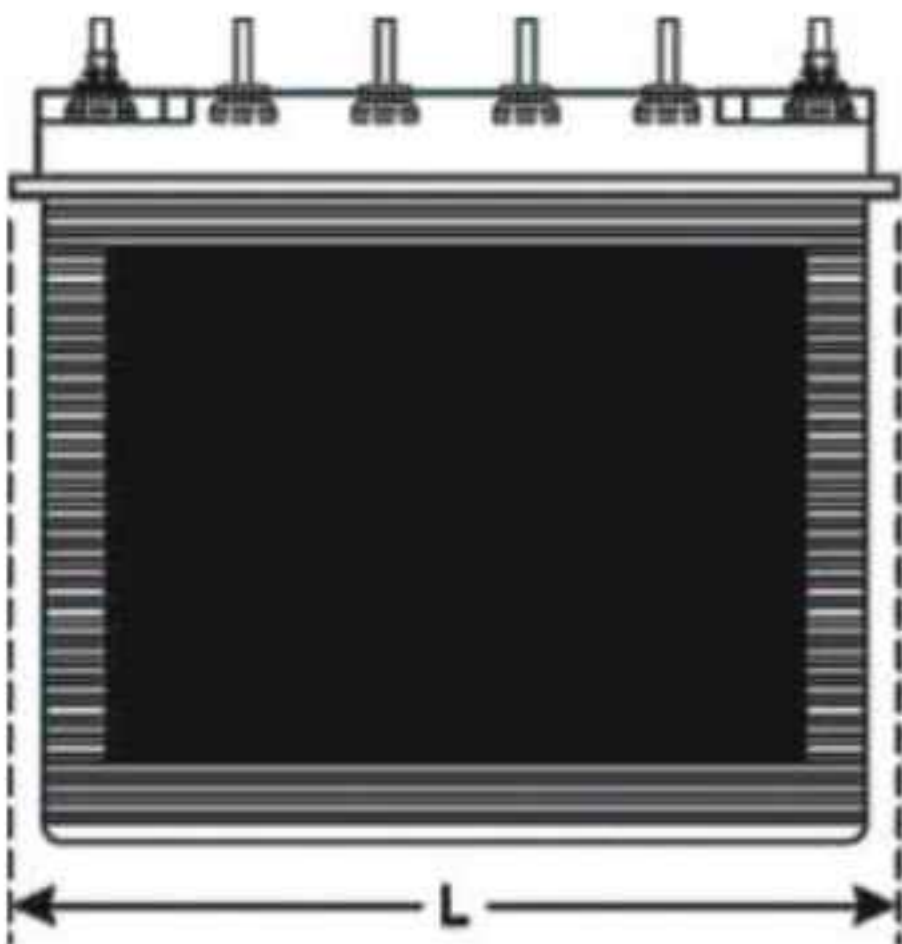
Features

- ▶ 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 Specification

Model	Nominal Voltage	Capacity	Dimensions (in mm)			Warranty
			Length	Width	Total Height	
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.





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