

PROTONIX



35+ | YEARS OF TRUST
COUNTRY PRESENCE
GLOBAL OEM BRANDS MANUFACTURER

EMPOWERING A GREENER TOMORROW

THE COMPANY WITH OVER FOUR DECADES
OF MANUFACTURING EXPERTISE AND INNOVATION

ABOUT US

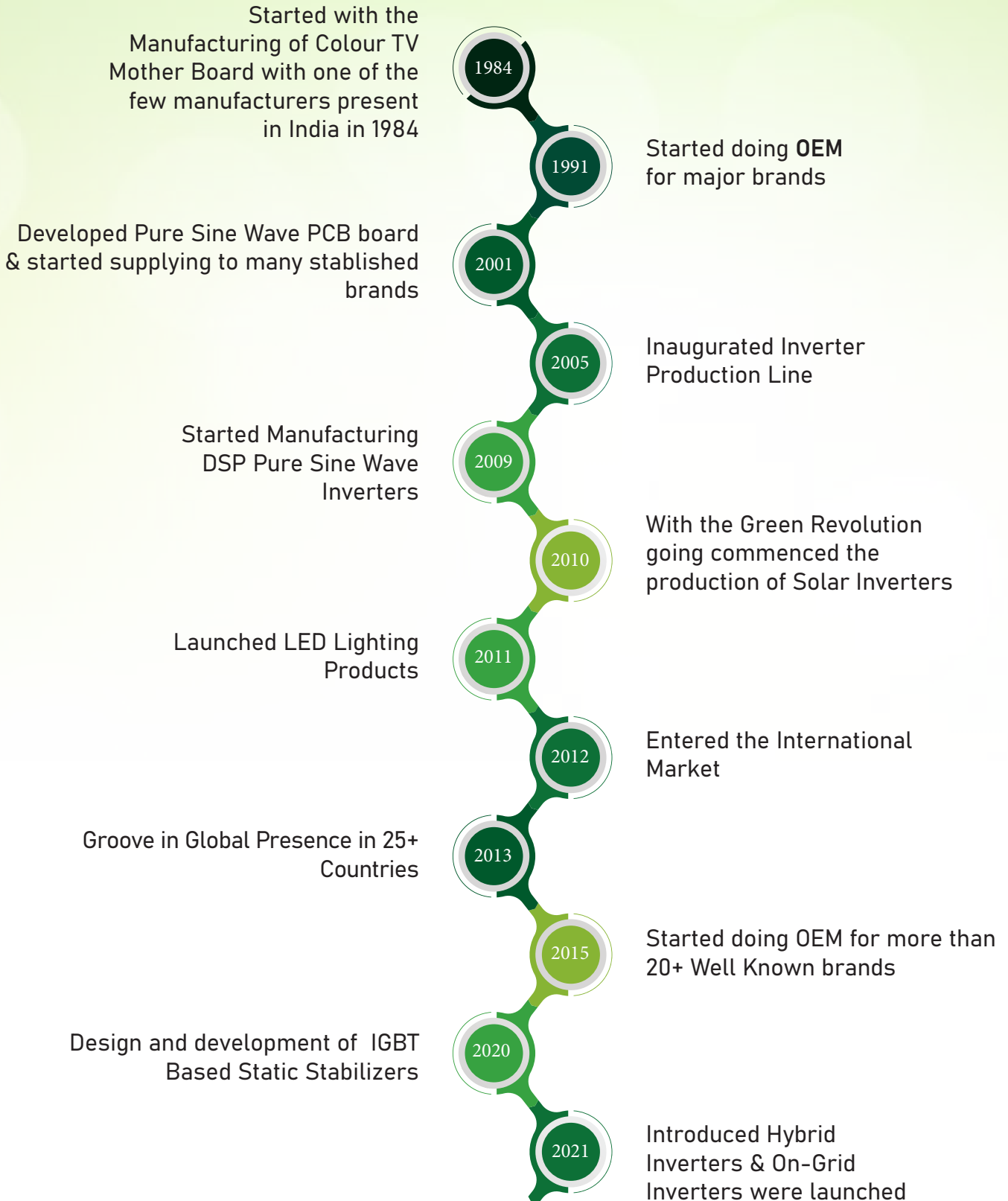
Protonix Fortuner India Pvt. Ltd is a professionally managed OEM/ODM ISO 9001:2005 certified organization engaged in the design, development and manufacturing of power electronics. The company with more than four decades of manufacturing expertise and innovation in the realm of Solar Renewable, LED lighting, computer peripherals, display devices, entertainment electronics & power electronics industries in India is among the leaders in the industry aided by a dynamic team of able and experienced professionals.

Power backup, Energy efficient lighting and renewable energy solutions form one of our core offerings and many of the leading Indian brands in Solar and LED Lightings, uses our products and foster our brand strength and reputation in their products.

Today Protonix Fortuner is known for its manufacturing quality, timely deliveries & product support after sales. We are a preferred source for Contract manufacturing, New Product Development and upgrades for many Indian & International leading brands in power electronics & Lighting. Who desires well equipped, World-class, manufacturing setup with matching expertise & engineering skills offerings innovative products to compete globally meeting their specifications

Protonix Fortuner India Pvt. Ltd.

Journey of Greener Tomorrow



MISSION & VISION

MISSION

At Protonix Fortuner our mission is to have unwavering focus on:

- Continuous innovation, product enhancement and unflinching focus on customer satisfaction.
- Zero manufacturing defect, and adopt latest manufacturing techniques to offer truly world class products.
- Customers to have them enjoy comfort, safety, protection and peace of mind.



VISION

- To build a truly world class company with sustainability at its core.
- Continuous tech upgrade, sales, personnel training and increasingly efficient after sales service support.

MANUFACTURING CAPABILITIES

With state of the art technology, our automated precision manufacturing facility is located in the manufacturing hub of Noida (Uttar Pradesh) with an area of 25 thousand sq. ft. located in electronic manufacturing hub. Our strong leadership, commercial personnel and business network is adapt at providing best in class, state of the art technology products with efficient services and reliable backup support.

As a company, we are known for our impeccable credentials which include:

- Top of the line manufacturing quality
- Prudent deliveries
- Excellent after sales product support



We possess solid capabilities for manufacturing, new product development and upgrades for various leading national and international brands in the realm of power electronics and LED lightings.

With world class manufacturing facilities, with cutting edge technology and talent, and flawless engineering knowhow, we bring innovative and globally competitive products to meet the expectations of the clients.

LEADERSHIP TEAM

ANIL BHUSHAN

Anil Bhushan is a B.Tech in Electronics and Communication Engineering from Indian Institute of Science, Bangalore. He has 5 decades of experience as a techno commercial entrepreneur, besides having hands on experience in design and development of analog and video signal processing, system integration, power electronics and switching power supplies. He is passionate about financial and marketing management and lighting technology.



ASHISH CHOUDHARY

Ashish Choudhary is a Bachelor of Technology from MIET in Electronics and Communication Engineering with close to two decades of techno commercial experience in International Business. He is among the recipients of Young Achievers Awards 2019 in the promotion of Green Technology. He is a dynamic name in the promotion of Make in India initiative, and competing with global giants in the realm of solar power besides other sources of renewable energy and secondary storage systems for electrical power.

AMIT SAXENA

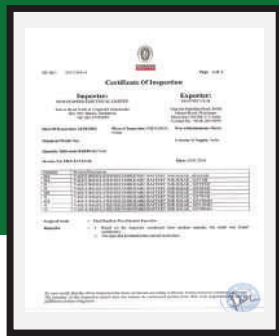
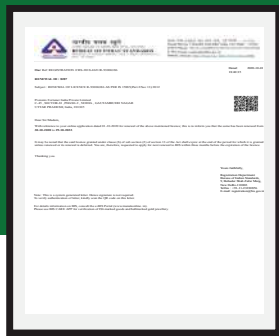
Amit Saxena is a graduate with Electronics and Communication Engineering from Roorkee. He has more than 25 years of experience in R&D, production planning and management, design & development, value engineering in power electronics and production validation in accordance with the metrics of national & international standards.



CERTIFICATIONS & AWARDS

We have been appreciated with various awards for our quality standards. Our OEM department is working extensively to provide the ultimate benchmark for well established brands of inverters and LED Lightings.

We have received several certifications and awards from MNRE (Ministry of New & Renewable Energy) for our environment friendly products and practices.



RESEARCH & DEVELOPMENT



Owing to the nature of our business and the demands of our clients it is imperative on our part to keep abreast of the latest changes in systems, processes and technologies to offer the best to our clients and keep competition at bay.

To be on the top of our game, we have an elaborate team of experts who engage in the latest R&D in the industry and guide the team to engage and employ the most contemporary solutions. This is with a view to produce the cutting edge and most efficient, cost efficient & quality products across each vertical for optimum efficacy and mileage.



PRODUCT AUTOMATION

We are facilitated with latest in-house (AI, MI & SMD) which increases production speed & accuracy that makes us different from other organization.

With our next-generation industrial automation system and products businesses can improve the entire lifecycle with Integrate advanced IT applications, tools, and technologies for industrial use for maximum engineering efficiency with the advantages of High Productivity, High Flexibility, High Information Accuracy & High Safety



INTERNATIONAL TECHNICAL TRAININGS & EXHIBITION



As a part of our marketing strategy, we consider it crucial to provide technical knowhow and the commercial parlance to our business partners so that they engage with our customers sensibly and profitably. So training is our top of the line priorities to enhance our business relationships with clients.

CLIENTS

We have the privilege of working alongside some of the most esteemed companies. We have a growing list of clients who rely on us for their electrical and power needs and we cater to them with complete care, ethics and accountability.



PRODUCTS LISTING



POWER INVERTERS

HOME & INDUSTRIAL

Fortuner UPS / INVERTER with inbuilt zero drop charger is specially designed for Home & Industrial applications.

These Single Phase and Three Phase Home UPS / INVERTER are highly efficient and user friendly with selectable HYBRID / PCU function, to ensure maximum utilization of power according to user requirements.

Battery type selection (SMF / TUBULAR) feature make our inverters compatible with any type of Battery. This function enhances the battery life and power backup.

Fortuner inverters can be used as an UPS for Computer application or Normal Inverter for home appliances. It can charge Batteries using the Grid Power also.



TUBULAR / SMF, to Enhance the battery Life & Backup



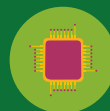
Intelligent Power full Grid Charging for speedy Charging of Batteries.



Unique onsite parameter setting features provide the flexibility to change the UPS / INVERTER operating Parameter as per site conditions.



Sine wave Inverters gives the same current which you get from power grid, in comparison to square wave inverters Pure Sine Wave protects and gives longer life to all Home appliances and sensitive Electronic devices.



DSP based control guarantees high Reliability & Fast processing



Extra Power & longer backup with the same Battery as compare to other low efficiency inverter.



LCD Display will display all Inverter parameters like: Battery, Mains Input and Output, Charging Current & Load Power parameters, which makes our inverters very user friendly.



Durable Design to sustain all type of Power fluctuations and fully protect the connected equipments.

TECHNICAL SPECIFICATIONS

Model	FR100, FR350, FR500, FR700, FR900, FR1200	FR1700, FR2200, FR2500	FR2500, FR3000, FR3500, FR5000	FR5000, FR6000, FR7500	FR10K, FR12K, FR15K	FR3P10K, FR3P12K, FR3P15K, FR3P20K, FR3P25K, FR3P30K
Battery Voltage	12V	24V	48V	96V, 120V	120V, 180V, 240V	Customized*
Technology	DSP Based Full Bridge Topology					
Input/Output Phase	Single Phase				Three Phase	
Output Voltage on Inverter Mode	220 ± 2%				220 ± 2% Per Phase	
Output Frequency on Inverter Mode	50Hz ± 0.1Hz					
Changeover Time UPS Mode	<10 ms				NA	
Changeover Time Mains Mode	<30 ms				<40 ms	
Changeover Mains to UPS and UPS to Mains	Automatic					
Output Waveform on Backup Mode	Pure Sine Wave					
THD	<3% (On Resistive/Linear Load)					
Efficiency*	>80%			>85%		
Charger	CCCV Charger					
Charging Current	Up to 15Amp*			Up to 20Amp*		
Surge Load Capacity	300%					
Input Voltage (UPS)	170-260+/-10V			NA		
Input Voltage (INV)	100-290+/-10V			160-260+/-10V		
Output Voltage on Mains Mode	Same as Input					
Output Frequency on Mains Mode	Same as Input					
DISPLAY, PROTECTIONS AND INDICATIONS						
Display	16x2 Alpha Numeric LCD Display with LED Indications					
Display Parameters	Output Power (Watt), Mains AC Voltage, Output AC Voltage, Temperature (Deg C), Battery Voltage, Charging (Amp)					
Protections with Buzzer Indications	Low Battery, Overload, Short Circuit, Over Temperature					
Auto Reset Features	Yes					

Applications



Telecom



UPS



Emergency Lighting



Security



Utility



Railways



Photovoltaic



Universal

SOLAR UPS/INVERTER

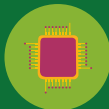
HOME & INDUSTRIAL

Fortuner Solar Home UPS / INVERTER with inbuilt zero drop Solar charger is specially designed for solar applications.

These Single Phase and Three Phase Solar Home UPS / INVERTER are highly efficient and user friendly with selectable HYBRID / PCU function, to ensure maximum utilization of solar power according to user requirements.

Battery type selection (SMF / TUBULAR) feature make our inverters compatible with any type of Battery. This function enhances the battery life and power backup.

Fortuner Solar inverters can be used as an UPS for Computer application or Normal Inverter for home appliances. It can charge Batteries using the Grid Power also.



DSP based control guarantees high Reliability & Fast processing



User can set Solar Power Utilization (HYBRID / PCU mode) according to the requirement.



Extra Power & longer backup with the same Battery as compare to other low efficiency inverter.



LCD Display will display all Inverter parameters like: Battery, Mains Input and Output, Charging Current & Load Power parameters, which makes our inverters very user friendly.



Durable Design to sustain all type of Power fluctuations and fully protect the connected equipments.



TUBULAR / SMF, to Enhance the battery Life & Backup



Intelligent Power full Grid Charging for speedy Charging of Batteries.



Unique onsite parameter setting features provide the flexibility to change the UPS / INVERTER operating Parameter as per site conditions.



Sine wave Inverters gives the same current which you get from power grid, in comparison to square wave inverters Pure Sine Wave protects and gives longer life to all Home appliances and sensitive Electronic devices.



No Need to use additional UPS for Computer, User can select UPS or INVERTER mode operation as per requirement.

TECHNICAL SPECIFICATIONS

Model	FR100, FR350 FR500, FR700, FR900, FR1200	FR1700, FR2200 FR2500 FR3000	FR2500, FR3000, FR3500, FR5000	FR5000, FR6000, FR7500	FR10K, FR12K, FR15K	FR3P10K, FR3P12K, FR3P15K, FR3P20K FR3P25K, FR3P30K
Battery Voltage	12V	24V	48V	96V	120V,180V, 240V	Customized*
Technology	DSP Based Full Bridge Topology					
Input/Output Phase	Single Phase					Three Phase
Output Voltage on Inverter Mode	220 ± 2%					220 ± 2% Per Phase
Output Frequency on Inverter Mode	50Hz ± 0.1Hz					
Changeover Time UPS Mode	<10 ms				NA	
Changeover Time Mains Mode	<30 ms				<40 ms	
Changeover Mains to UPS and UPS to Mains	Automatic					
Output Waveform on Backup Mode	Pure Sine Wave					
THD	<3% (On Resistive/Linear Load)					
Efficiency*	>80%			>85%		
Charger	CCCV Charger					
Charging Current	Up to 15Amp*			Up to 20Amp*		
Surge Load Capacity	300%					
Input Voltage (UPS)	170-260+/-10V			NA		
Input Voltage (INV)	100-290+/-10V			160-260+/-10V		
Output Voltage on Mains Mode	Same as Input					
Output Frequency on Mains Mode	Same as Input					
SOLAR CHARGER*						
System Battery Voltage	12V	24V	48V	96V	180V/240V/360V	As Per System Requirement
Maximum Connected Panel Array VOC	30V	50V	90V	180V	300/400V	
Maximum Panel Current	40Amps.	40Amps.	40Amps.	40Amps.	40Amps.	
Suggested Solar Panel Watt Power*	600	1200	2400	4800	As Per Battery Voltage & System Requirement	
DISPLAY, PROTECTIONS AND INDICATIONS						
Display	16x2 Alpha Numeric LCD Display with LED Indications					
Display Parameters	Output Power (Watt), Mains AC Voltage, Output AC Voltage, Temperature (Deg C), Battery Voltage, Charging (Amp)					
Protections with Buzzer Indications	Low Battery, Overload, Short Circuit, Over Temperature					
Auto Reset Features	Yes					

Applications



Telecom



UPS



Emergency Lighting



Security



Utility



Railways



Photovoltaic



Universal

MPPT SOLAR UPS/INVERTER

Fortuner Solar UPS / INVERTER with inbuilt MPPT (Maximum Power Point Tracking) Solar charger is specially designed for maximum utilization of Solar Power. High efficiency MPPT charger design ensure 20 - 30 % more solar energy harvest by using this Inverter as compared to other topology Inverters with the same capacity of panel array. Wide Solar input voltage range makes our inverters compatible without limiting Vmp of solar panels.

Fortuner MPPT inverter have dual LCD display which shows inverter and solar charger parameters separately. Real time solar parameters can monitor in a single view. We are providing flexible parameters setting features with our inverters; User can set all parameters according to their requirements. All Single Phase and Three Phase Solar MPPT UPS have selectable HYBRID / PCU function, which ensure maximum utilization of solar power according to user requirements.

Battery type selection (SMF / TUBULAR) feature make our inverter compatible with any Battery. This function enhances the battery life and backup.



Increases the output by 30% with MPPT technology



TUBULAR / SMF, to Enhance the battery Life & Backup



User can set Solar Power Utilization (HYBRID / PCU mode) according to the requirement.



Intelligent Power full Grid Charging for speedy Charging of Batteries.



Extra Power & longer backup with the same Battery as compare to other low efficiency inverter.



Unique onsite parameter setting features provide the flexibility to change the UPS / INVERTER operating Parameter as per site conditions.



LCD Display will display all Inverter parameters like: Battery, Mains Input and Output, Charging Current & Load Power parameters, which makes our inverters very user friendly.



Sine wave Inverters gives the same current which you get from power grid, in comparison to square wave inverters Pure Sine Wave protects and gives longer life to all Home appliances and sensitive Electronic devices.



Durable Design to sustain all type of Power fluctuations and fully protect the connected equipments.



No Need to use additional UPS for Computer, User can select UPS or INVERTER mode operation as per requirement.

TECHNICAL SPECIFICATIONS

Model	MPPT FR700	MPPT FR900	MPPT FR1200	MPPT FR1200,FR1700 FR2000,FR2200	MPPT FR3000 FR3500 FR5000	MPPT FR5000,FR7500	MPPT FR10000	MPPT FR15000
Series	Fusion MPPT				Platinum MPPT		EF MPPT	
Battery Voltage	12V		24V		48V	96V	120/180V	240V
Technology	DSP Based Full Bridge with MPPT Technology							
Input/Output Phase	Single Phase							
Power Device	MOSFET						IGBT	
INVERTER / UPS								
Output Voltage on Inverter Mode	220 ± 5%							
Output Frequency on Inverter Mode	50Hz ± 0.5Hz							
Changeover Time on Ups Mode	< 10ms							
Change over Time on Normal Mode	< 30ms							
Change over Mains to UPS and UPS to Mains	Automatic							
Output Waveform on Backup Mode	Pure Sine Wave							
THD	< 3%							
Charger	Solar + Grid with Solar Priority*							
Inverter Overload	> 100%							
Surge Load Capacity	300%							
Input Voltage (UPS)	180-260V							
Input Voltage (INV)	100-290V							
Output Voltage on Mains Mode	Same as Input							
Output Frequency on Mains Mode	Same as Input							
SOLAR CHARGER								
Topology	MPPT							
Maximum Connected Panel Array Power (W)	300	600	2500	5000	5000	10000	10000	
Maximum Connected Panel Array Voc (V)	35	50	120	200	200	450	450	
Recommended Panel Array Vmp (V)	18-30	30-36	62-108	120-144	120-144	270-360	270-400	
PROTECTIONS AND INDICATIONS								
At Respective Status/Fault Conditions	Alpha Numeric Dual LCD and LED Indications				Alpha Numeric LCD Display			
Parameters LCD Inverter UPS	Output Power (Watt), Mains Input Voltage, Output Voltage, Temperature (Deg C), Battery Voltage, Charging Current, Charging mode							
Parameters LCD MPPT	Solar Panel Input Voltage (VP), Solar Panel Input Current (IP), Battery Voltage (VB), Battery Current (IB)				Solar Panel Input Voltage (VP), Solar Panel Input Current (IP), Battery Voltage (VB), Battery Current (IB), Panel VA, KWH, Total KWH			
Protections and Buzzer Indications	Low Battery, Overload, Short Circuit, Over Temperature, Solar Panel Reverse							

Applications



Telecom



UPS



Emergency Lighting



Security



Utility



Railways



Photovoltaic



Universal

STATIC STABILIZER

FORTUNER Static Voltage Stabilizer, are the devices of voltage control, protection and management which are microprocessor controlled, and which have high speed semiconductor technology. Static Voltage Stabilizer, are the devices of voltage control, protection and management which are microprocessor controlled, and which have high speed semiconductor technology.

With Very High Speed of Correction provides perfectly stable output even under severe conditions of unbalanced voltage conditions. Ideal to protect the electrical and electronic equipment from high and low voltage. The static stabilizers have advanced means like digital signal processors to automatically sense the voltage fluctuation and correct instantaneously to protect the appliances from short circuits and overcurrents.



- New technological design that is suitable for industrial environments like very dusty conditions, humidity and vibration.
- Maintenance free design.
- Safe usage for all electrical devices. Minimal size, long life.
- User friendly, easy and comprehensive LCD Display and mimic diagram
- Compact structure with high quality material and minimum malfunction hazard
- Surge Arrester against sudden voltage increases and streaks lightning
- Protection against over load, over temperature, high voltage, low voltage etc.
- Parallel connection for special high power applications Self test facility

More
Reliable



Fast Correction
speed



Tight
Regulated
output +/- 1%



High Efficiency



No Moving
parts, Less
maintenance



IGBT PWM AC
to AC Switching
control.



TECHNICAL SPECIFICATIONS

Particulars	Single Phase	Three Phase
Capacities Discreet IGBT based IGBT module based	1KVA to 30KVA 30KVA to 70KVA	3KVA to 90KVA 90KVA to 200KVA
Control type	DSP based IGBT PWM switching	DSP based IGBT PWM switching
Input Voltage Range for 220V output - Normal Wide Extended	180V to 260V 150V to 290V 90V to 300V	312V to 450V 260V to 500V 155V to 520V
Input Voltage Range for 110V output - Normal Wide Extended	90V to 130V 75V to 145V 45V to 175V	155V to 225V 130V to 250V 78V to 300V
Output Voltage	220V +/- 1% settable 110V +/- 1% settable	220V +/- 1% settable 110V +/- 1% settable
Regulation	+/- 1%	+/- 1%
Efficiency	97%	97%
Input Frequency	45Hz to 65Hz	45Hz to 65Hz
Wave Form	Same as Input	Same as Input
Effect of Power factor	nil	nil
Display	LCD for - Input voltage Output voltage Load VA Line frequency Overload High voltage input Low voltage input Cut off mode Bypass mode Set up mode Name of your company	LCD for - Input voltage Output voltage Load VA Line frequency Overload High voltage input Low voltage input Cut off mode Bypass mode Set up mode Name of your company
Rate of Correction	20000V per second	20000V per second
Operating Temperature	0 to 50 deg Celsius	0 to 50 deg Celsius
Duty cycle	Continuous	Continuous

Nature of Cooling	Air cooled	Air cooled
Mains bypass	Auto bypass to mains when stabilizer is on cut off mode and mains input voltage is between 190V to 250V.	Auto bypass to mains when stabilizer is on cut off mode and mains input voltage is between 190V to 250V.
Protections	Overload Short circuit High voltage Low voltage	Overload Short circuit High voltage Low voltage
Trip and restart	auto	auto
Transformer	1/5th size of the rated VA	1/5th size of the rated VA

SOLAR CHARGE CONTROLLER

MPPT - SERIES (10AMPS.- 80 AMPS)

- 12/24V Auto Battery Selection
- Intelligent Maximum Power Tracking
- LCD Display
- High Efficiency
- Wide PV input range
- Overload, Short Circuit Protection
- Solar - Battery, Voltage & Current Parameter Display
- Battery Reverse Connection Protection



SOLAR MANAGEMENT UNIT (SMU) (10- 40 AMPS)

- Wide Voltage Battery Range (12V - 96V)
- 10 Amps. to 40 Amps.
- LED / LCD Display
- High Efficiency Zero Drop / MPPT Solar Charger
- Compatible with any brand Inverter
- Cost Effective Solution
- Battery Reverse- Discharge Protection
- Battery Reverse Connection Protection



D SERIES & Z SERIES (10- 60 AMPS)

- 12 / 24 V / 36V / 48V Auto Battery Selection
- LCD Display
- Settable Operating mode of Load
- Solar & Load Current Parameter Display
- Automatic Identification System Voltage level
- Intelligent PWM Charge Mode



SOLAR MAX & SOLAR HI MAX - SERIES (10- 60 AMPS)

- Wide Voltage Range (12V - 240V)
- LED / LCD Display
- 10 Amps. to 60 Amps.
- High Efficiency Zero Drop Solar Charger
- Cost Effective Solution
- Battery Reverse- Discharge Protection
- Battery Low Voltage Disconnection (LVD)



TECHNICAL SPECIFICATIONS

Series	D Series		Z Series		MPPT Series
Rated Current	10A / 20A / 30A		30A	60A	25A / 50A
System Voltage	12V / 24V Auto		12V / 24V Auto	12V/24V/36V/48V Auto	12V / 24V Auto
Solar Panel			< 50V		
Float Voltage	13.8V / 27.6V		13.8V / 27.6V Settable		13.8V / 27.6V
LVD	10.7V / 21.4V		10.7V / 21.4V Settable		N/A
LVR	12.6V / 25.2V		12.6V / 25.2V Settable		N/A
Boost Voltage	b01 Sealed 14.4V / 28.8V	Duration 2 Hours	14.4V / 28.8V Settable		14.4V / 28.8V
	b02 GEL 14.2V / 28.4V				
	b03 Flooded 14.6V / 29.2V				
USB Output Max (Optional)	1A / 5V				N/A
Display Parameters & Indications	Battery Voltage, Floating Charge Voltage, Recovery Voltage after Low Battery, Under Voltage Protection, Load Mode, Battery Types, Solar OK, Battery Charging / Charged, Load ON, Load Timer		Battery Voltage, Battery Temp., Solar Panel Charging Current, Load Discharging Current, Accumulated Charging Power, Hight Cut Charge Voltage, Recovery Voltage after Low Battery, Under Voltage Protection, Load Mode, Battery Types, Solar OK, Battery Charging / Charged, Load ON, Load Timer		PV Input Voltage (VP), PV Input Current (IP), Battery Voltage (VB), Battery Current (IB)
Temperature Compensation	NA		-4mv / Cell / Deg C		N/A
Charge / Discharge Voltage Drop	< 0.3V / -0.2V				
Self-Consumption	≤ 20mA				≤ 30mA
Installation Cable Area	≤ 7# AWG (≤ 16mm ²)				
Working Temperature	45°C				
Storage Temperature	-30° C ~ 70°C				
Humidity	10% - 90%, Non Condensing				



PWM



Protections



LCD Display



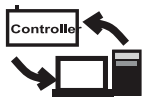
12/24/36/48V Auto



Timer



User Settable



Remote Monitoring and control



Temperature Compensation



Working Mode of Load



Parameters Adjustable



Accumulated ampere Hours



Battery Type Selection

DEEP CYCLE SOLAR BATTERY (VRLA & OPZV)

Our Deep Cycle Solar Batteries are best solution for your renewable energy storage system that ensures reliability and longevity. Unlike some manufacturers who simply repackage existing battery products into a new array and call it a solar battery, we understand market needs and developed an innovative Deep cycle solar storage battery that provides the best available power storage solution for contemporary Solar and Wind power systems. We have a very wide capacity range of Deep cycle Solar batteries.

Our batteries are heavy weight and that's important! "Heavy" means energy dense plates that use more active lead material. Heavier plates that use more lead material are directly related to stronger battery performance and longevity. So even if the batteries look similar, batteries with more active lead material will last longer!



10 Hr Capacity which gives extra power



High Efficiency of Recovery



Low Self Discharge which increase the Battery Life.



High Efficient Deep Discharge



Maintenance Free



No Electrolytic Stratification



Triplex Sealed Construction



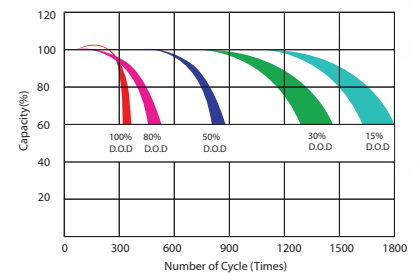
Heavier plates which gives more Power & Longer Backup

TECHNICAL SPECIFICATIONS

VRLA(AGM & GEL) BATTERIES 6V & 12V- 2.3AH TO 260AH

- Low self- discharge rate : $\leq 3\%$ month
- High sealed reaction efficiency : $\geq 99\%$
- Structure : Compact design, shorter internal connectors between cells
- Terminal Two or more types terminals are convenient for selection
- Terminal Sealing : Double sealing technique (mechanical + epoxy glue)
- Separator : Using improved AGM separator, makes lower resistance higher assembling pressure to increase deep cycle life
- Good high rate discharge performance
- Wide operation temperature range : - 20~60°C
- Plate : Pasted flat type, with advance deep cycle formula of AM
- Vent system : Gases can be vented through flame arrester/filter
- Battery case : Made of high strength ABS(UL94- HB) & (UL94- V0) is optional

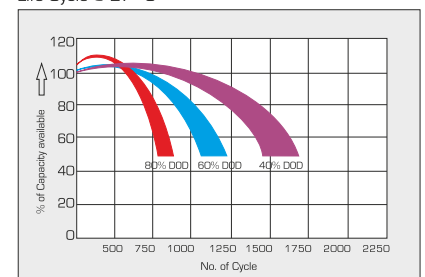
Model	Voltage	Capacity AH	HR Rating	Weight (In kg)±2%	Dimension (In mm)		
					Length	Width	Height
FR 645	6	4.5	20 HR	0.75	70	47	101
FR 1207	12	7		2.1	151	65	93.5
FR 1212	12	12		3.6	151	98	95
FR 1218	12	18		5.0	181	77	167
FR 1226	12	26		8.1	166	175	125
FR 1240	12	40		13.0	198	166	171
FR 1255	12	55	10 HR	18.0	229	138	210
FR 1270	12	70		23.0	260	169	210
FR 12100	12	100		31.0	328	172	222
FR 12150	12	150		45.0	483	170	24
FR 12200	12	200		62.0	522	240	219



Life characteristics of cycle use

Model	Voltage	Capacity AH	HR Rating	Weight (In kg)±2%	Dimension (In mm)		
					Length	Width	Height
FROPzV 2-200	2	200	10 HR	16.8	103	206	355
FROPzV 2-600	2	600		46.5	145	206	506
FROPzV 2-1000	2	1000		77	233	210	648
FROPzV 2-1500	2	1500		110	275	210	831
FROPzV 2-2000	2	2000		150	399	214	807
FROPzV 2-2500	2	2500		190	487	212	807
FROPzV 2-3000	2	3000		225	576	212	802
FROPzV 12-100	12	100		36	407	177	225
FROPzV 12-160	12	160		57	530	209	219
FROPzV 12-200	12	200		73	520	268	225

Life Cycle @ 27° C



TUBULAR BATTERY

(100AH- 270 AH)

- 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.



- Batteries are designed to withstand frequent & long power cuts with Quick recharge adoptability. Long Life cycles.
- Low Antimony alloy of the Spines Ensure a very low self discharge.
- Extra thick Tubular Plates with superfine Grain Structure, Minimise Grid Corrosion of High Temperature.
- Eco Friendly Microporus Ceramic Vent cum float indicator to reduce topping up frequency & to ensure no Acidic Fumes.
- High Quality Envelope Separator Ensures Longer life.
- Design as bigger electrolyt reserve volume ensures less topping up required during service life once in a year

SR. No	MODEL	AH CAPACITY	TYPE	DIMENSIONS (MM)
1	FRTT27012	270AH	TALL TUBULAR	IT500-545X235X475
2	FRTT24012	240AH	TALL TUBULAR	IT500-545X235X475
3	FRTT22012	220AH	TALL TUBULAR	IT500-545X235X475
4	FRTT20012	200AH	TALL TUBULAR	IT500-545X235X475
5	FRTT15012	150AH	TALL TUBULAR	IT500-545X235X475
6	FRTT10012	100AH	TALL TUBULAR	IT500-545X235X475

TUBULAR GEL BATTERY (MAINTENANCE FREE) 100AH TO 250AH)

FORTUNER Tubular Gel Battery adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. Deep cycle Tubular gel 12V battery have precision German vent valves and no opening for water levels to check. Being a sealed unit, there is no risk of acid spillage. This battery can be installed in a horizontal or vertical position. Recharging is performed much more efficiently due to the special design of the active materials for faster charge acceptance. Gelled electrolyte ensures no stratification of acid & failure due to Partial State of Charge (PSoC)

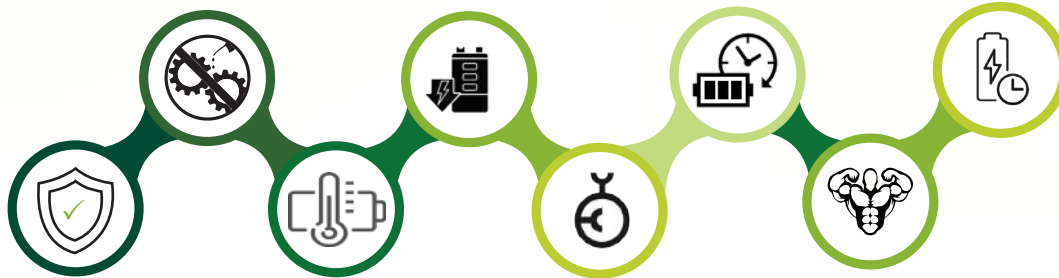


Maintenance-Free: No topping up water during the operational life

Self-discharge: Approx 2% per month at 25°C

Recovery after deep discharge: Very good

Operational Life: > 20 years in standby float operation @25°C



Reliability: Peace of mind that the OPzV cell backup power supply will remain constant; longer power backup discharges during a power outage

Operational temperature: -20°C to 45°C, recommended 10°C to 35°C, short time 45°C to 55°C

German Design: With balanced active materials delivers battery capacity that meets specifications international

Durability: Robust heavy-duty construction, coupled with deep-discharge performance

Applications



Utility



Railways



Photovoltaic



Universal



Telecom



UPS



Emergency Lighting



Security

INTELLIGENT SOLAR HYBRID SYSTEM

Fortuner Intelligent range of Solar Hybrid Inverters is the Trusted Hybrid solar technology in the Indian market. Active front end technology enables it to store the renewable solar energy in the battery as well as export any excess solar power generated, to the grid through net meter, resulting in improved savings at consumer end. High level of flexibility in the form of configurable set points gives the intelligent series an unparalleled level of control over the inverters' parameters. Customizability of settings makes it the ideal product for solar applications like process industries or Telecom BTS where each site has a different grid condition.

Remote monitoring facility make this inverter more user friendly, User can remotely control and monitor all system parameters with interactive graphical options.



Grid Synchronized with Battery based storage

Export to Grid During Lean Load

Customizable Scheduling Features

Remote Monitoring

Auto Genset Start

FEATURES:

- Industrial Solution: Best Solar Solutions for Industrial and Commercial Complex.
- Active Front End Technology: Low distortion O/P at unity power factor Increased battery life by avoiding PSOC condition Export excess PV power to grid through grid synchronisation.
- BESS Solution for Peak load shaving/ load levelling Voltage/ Frequency regulation Time shifting applications
- Scheduling Features: Controlled scheduling via keypad or PLC Battery charging according to TOD Programmable night saving mode
- Flexible Compatibility: Can be AC coupled with String inverters Compatible with wind, hydro and other sources as well Seamless synchronisation with DG Sets.



Office Buildings



Telecom BTS



Mini Grid



Schools



Industries

GRID TIE SOLAR INVERTER

FORTUNER Grid Tie Solar Inverter is designed to convert Solar Power into utility- grid electricity Power that can be utilized by the home or sold to the local power authority. Grid tie Inverters use high efficiency MPPT technology to ensure maximum power harvesting from PV array and conversion to AC and delivered to the Utility Grid. Grid Tie Inverters are configured to feed into the LT(Low Voltage) utility network with all safety measures. Anti-islanding feature ensures that the inverters switch off when grid power is absent.

In order to operate, the Solar Grid Tie Inverter must have grid power available and connected.

Wide input voltage range of PV array Voltage gives adequate flexibility to the user to size the PV array as per Module availability.



FEATURES:

- High efficiency: max 98.2%. Euro 97.8%
- Max I/P Voltage 1000V
- Wide MPPT working range: 250V- 800V
- IP65 protection grade for indoor & outdoor use
- MPPT with unbalance I/P power management
- Dual MPPT with Independent tracking
- State Of The Art Technology

TOUCH SCREEN DISPLAY

- Incredibly responsive touch screen display
- Accessible even after sunset
- Inbuilt data Logger
- Graphic Icons for clear readability
- Multi- inverter readings on one display
- Real time monitoring Instant data Log transfer feature through USB pen drive

WI-FI MINI UPS

FORTUNER WiFi UPS" is a micro UPS for WiFi Routers and provides continuous power supply even during a power failure. FORTUNER WiFi UPS comes with "Smart Charging". The Battery management System(BMS) ensures that the WiFi UPS charges itself when there is electricity and starts drawing power from the battery during a power failure. This also ensures an optimum battery life. A new device is completely discharged by the BMS to facilitate safe transportation of the device.

FEATURES

- Long Back-up
- Easy Installation
- Compact Size
- DIY Installation.



ONLINE UPS (1 KVA - 500 KVA)

- Online double conversion.
- Full DSP Control.
- High output power factor.
- Wide input adaptability.
- Optimized battery management.
- N+X Parallel redundancy.
- Strong overload capability.
- Power walk in.
- Generator mode.
- LBS synchronization.
- Multi- protection.
- EPO function.
- User- friendly network management.
- Remote Monitoring SNMP/GSM(optional).

**ISOLATION
TRANSFORMER**
advantage of
NOISE REJECTION

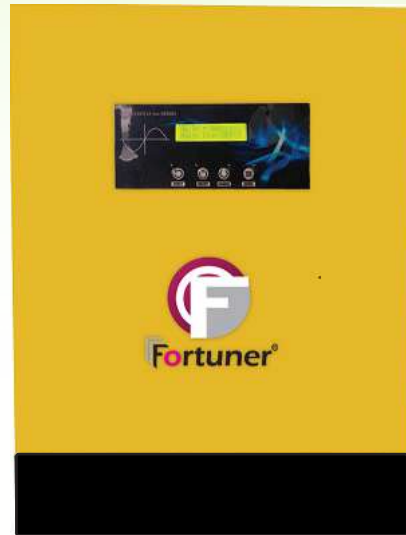


WALL MOUNT INVERTER INBUILT Li-ION BATTERY

FORTUNER Wall Mount Inverter with inbuilt Li-ion Batteries facilitated with Intelligent Battery Management System and safety mechanism against surge and short circuits

FEATURES

- No Maintenance
- Consistent Battery Backup throughout its Life
- Sine Wave Home UPS system with inbuilt battery
- Longer Life.
- No Acid Fumes & Spillage
- No Obtruding Dangling Wires!!



PORTABLE INVERTER INBUILT AGM VRLA (SMF) BATTERY

FORTUNER Portable inverter with inbuilt SMF Battery gives you light anytime and anywhere you go as it has constant power backup. Specially designed charging system, fast charges the battery and increase battery life.

FEATURES

- MOSFET Based Digital Technology
- No battery wire losses.
- Ensure Long Battery Life
- Compact & Highly Efficient.
- Plug and Play



INTEGRATED SOLAR POWER BACKUP SOLUTIONS

ENERGY STORAGE SYSTEMS

Our Energy Storage Systems is a visually stunning addition of Power Electronics to your Home/Office. A powerful Solar Hybrid Inverter with a compact system of built-in batteries to provide you the peace of mind you deserve.

ADVANTAGES :-

- Runs your AC for 3 hours
- Elegant looks for a drawing room solution
- Compact: takes very little footprint
- 9.6KWH SMF Batteries
- 3KVA Hybrid Inverter

APPLICATIONS :-

Energy storage systems are used wherever there is a requirement for power backup. This product is especially useful for applications such as: residences, small offices, shops, Bank ATMs, clinics, gyms etc. for example 3kVA inverter is sufficient to meet the load of a small office.



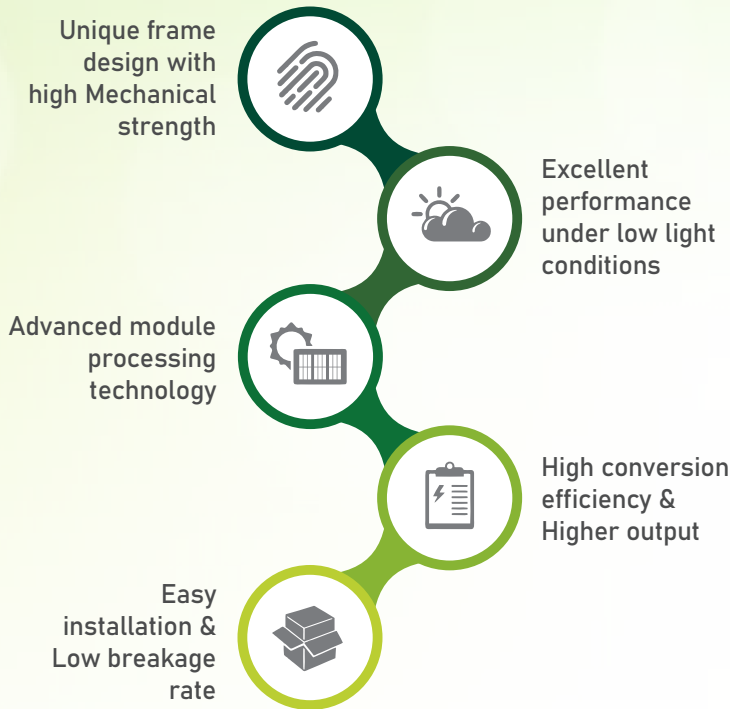
STRING COMBINER BOXES

We offer a wide range of Array Junction Boxes, String Monitoring Boxes, and DC Fuse Boxes suitable for combining PV panel strings at various levels. These combiner boxes can easily handle high voltage PV strings and give on-line current data of each string used to reliably detect reduced generation or failure of any string. The product is 100% customizable and is suitable for harsh weather conditions.

FEATURES:

- Monitoring of up to 24 strings in a single box
- 100% customizable as per requirement
- Can be manufactured under other brand names
- Approved for all safety and performance standards
- Supplied to over 1000 MW capacity plants in India now 1500VDC version also available
- No limitation on current monitored
- Self powered models available

SOLAR PHOTOVOLTAIC MODULE



POLY CRYSTALLINE

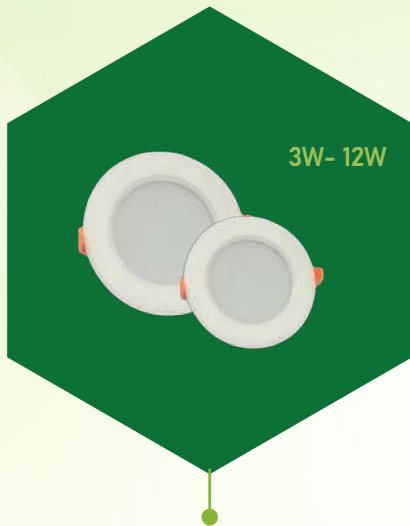


MONO CRYSTALLINE

Electrical Parameters										
Model	FRS 50W	FRS 80W	FRS 100W	FRS 165W	FRS 235W	FRS 220W	FR275W	FRS 335W	FRS 435W	FRS 550W
Maximum Power (P _{mx}) Wp	50	80	100	165	235	220	250	325	435	550
Maximum Power (V _{mp})	17.50	18.00	18.00	18.55	31.00	26.75	31.00	37.00	43.50	42.02
Maximum Voltage (I _{mp})	2.80	4.70	5.60	8.70	7.60	8.25	8.90	8.80	9.92	12.98
Open Circuit Voltage (V _{oc})	21.50	22.00	22.00	22.00	37.50	33.20	37.40	44.50	50.02	50.14
Short Circuit Current (I _{sc})	3.15	4.45	6.10	9.20	8.10	8.70	9.42	9.35	11.08	13.55
Junction Box	IP 65 rated Water Proof Nylon 6									
Cable	On Request					Double Insulated Solar Cable with MC4 Connector				
Front Glass	Low Iron Content, toughened & tempered High transmittance with Glass									
Solar Cells	36 Cells				60 Cells	54 Cells	60 Cells	72 Cells		
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)									
Back Sheet	TPT / EVA White Color									
Frame	Anodized Aluminum Frame									
Temperature Coefficients	Operating Conditions									
	Temperature Range		(-40°C to +85°C)							
	Coefficients of Current α	0.05%/°C	Maximum System Voltage		1000V					
	Coefficients of Voltage β	0.34%/°C	Maximum Surface Load Capacity		Tested up to 2400Pa according to IEC 61215					
Coefficients of Power γ	0.45%/°C	Warranty		10 Years Product Workmanship, 25 Years Linear Power Warranty						

All Electrical Parameter Specified at STC : 25°C, Cell Temperature : 1000W/m, Irradiance : AM 1.5

LED LIGHTING



Conceal Light (3 W TO 12W)

SPECIFICATION

- Efficacy : 80lm/w±10%
- High Efficiency: >89%
- High Power Factor >0.95
- CRI : >75
- No IR & UV radiation.
- Wide Mains input range. 100V - 440V.
- Constant Brightness even at low voltage condition.
- Longer Life - 50,000* hours, Low Maintenance.
- Surge Capacity : >4KV



LED PANEL (SLIM/SURFACE)

SPECIFICATION

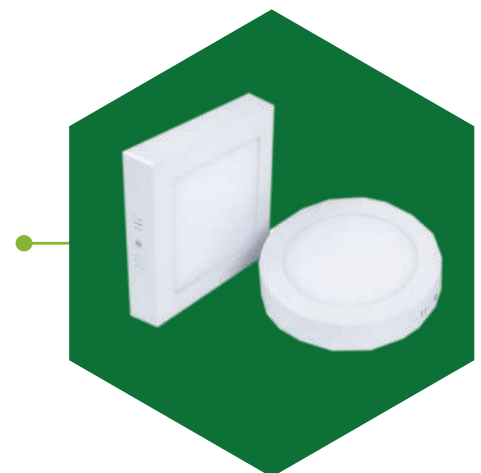
- Efficacy : 70LM / Watt
- Extruded Aluminum/Plastic housing
- Wide Mains input range: 100V- 440V
- Efficiency: >90%
- High Power Factor : > 0.95 & Low THD
- CRI : >75
- THD : <15%
- Surge Capacity : >4KV



LED PANEL (EDGE LIT / BACK LIT)

SPECIFICATION

- Aluminum/Plastic Die Cast Enclosure
- Efficacy : 70LM / Watt
- Wide Mains input range. 100V- 440V
- Efficiency : >90%
- High Power Factor > 0.95 & Low THD
- CRI : >75
- THD : <15%
- Surge Capacity : > 4KV



LED LIGHTING

MODEL : T5, T8
 SIZES :1ft,2ft & 4ft



LED TUBE LIGHT(5W TO 24W)

SPECIFICATION

- Efficacy : 100 LM / Watt
- High Efficiency : 90%
- High Power Factor >0.95
- CRI : >75
- No IR & UV radiation.
- Choice of T5/T8 Housing
- Wide Mains input range. 100V- 440V
- Constant Brightness even at low voltage condition.
- Longer Life – 50,000* hours, Low Maintenance.
- Housing - Aluminium / Plastic
- Surge Capacity : >4KV

10W- 350W



LED FLOOD LIGHT

SPECIFICATION

- IP- 65 Aluminum Pressure Die Cast Enclosure,
- Epoxy Powder Coated.
- Heat Resistance and Toughened type Glass
- Efficacy : 100LM / Watt
- Wide Mains input range. 100V- 440V
- Efficiency : >90%
- High Power Factor > 0.95
- CRI : >75
- THD : < 10%
- Surge Capacity : > 4KV/6KV/ 10KV



LED STREET LIGHT (AC/DC)

SPECIFICATION

- IP- 65 Aluminum Pressure Die Cast Enclosure,
- Epoxy Powder Coated.
- Heat Resistance and Toughened type Glass
- Efficacy : 100LM / Watt
- Wide Mains input range. 100V- 440V
- Efficiency : >90%
- High Power Factor > 0.95
- CRI : >75
- THD : < 10%
- Surge Capacity : > 4KV/6KV/ 10KV

GLOBAL PRESENCE

We follow a clean energy business practices for a GREENER TOMORROW.



35+

YEARS OF TRUST
COUNTRY PRESENCE
GLOBAL OEM BRANDS MANUFACTURER



INTERNATIONAL PRESENCE

Owing to the finesse and globally competitive products, we have a significant international market. We export to countries like Tanzania, Lebanon, Nigeria, Kenya, UAE, Zambia, Zimbabwe & South Africa. We have rave reviews on our products from our international clients and we are continuously expanding our reach owing to greater demand for our products. This is proof enough for the stringent manufacturing quality we take care of.

OUR SERVICES



**Web Support
Team**



**Skills Development
Program**



**Technology Awareness
Program**



**Qualified Sales &
Support Team**



**Knowledge
Sharing**



**World wide Service &
Support Network**



**OEM & ODM
Manufacturing**



**Energy Audits
Service**

35
YEARS
OF LEADERSHIP
IN TECHNOLOGY

POWERING
INDIA IN
AATMANIRBHAR
DREAMS

Get in Touch

PRODUCTS

Inverter / UPS

Online UPS

Deep Cycle Solar Batteries

Solar PV Module

Static Stabilizer

Solar UPS / Inverter

Grid Tie Solar Inverter

Charge Controller

LED Lighting

Other Products

www.indiamart.com/fortuner

<https://fortuners.m.trustpass.alibaba.com/>

<https://www.linkedin.com/company/fortuners-advanced-technology-p-ltd->

<http://www.facebook.com/FortunersTechnologyPvtLtd>

http://www.twitter.com/fortuners_Group

CONTACT

C-45, Sector-81, Noida-201305,UP (INDIA)

+91- 8126919394 | info@fortuners.net

exports@fortuners.net

www.fortuners.net



E-Contact



E- Catalogue

