

About us



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VOLTEK INDUSTRIES with its base in Kochi, Kerala is a SME, focused in designing and manufacturing of power electronic products. VOLTEK is always committed to the market by providing products with reliable and innovative technologies. Our Research and Development department consisting of experienced and dedicated engineers are capable to provide the best solution to meet the alternate power requirement. Our ISO COMPROMISE QUALITY policy always empowers VOLTEK to a competitive and successful brand in power electronic market. Our experience since 1999 makes VOLTEK INDUSTRIES a reliable solution provider for renewable energy management.

VOLTEK entered the field of manufacturing industry with highest efficiency in cost of investment and moved on to the production of inverters, solar street light and off-line uninterrupted power supply, air cooled and oil cooled server solutions. We got the model approval from the Central Laboratory Bangalore for the design of alternator including solar technology. We have got a noteworthy market share in installation of industrial and domestic, entrance systems. VOLTEK achieved the ISO 9000:2001 certification in the year 2006 and now bearing an ISO 9000:2009 certified company from DASA, certification India (Private limited) accredited by ICAAS company.

The strong support and encouragement from our distributors, customers, government to us, make further steps to increase energy production, secure investment enough in manufacturing SOLAR POWER CONCENTRATING UNITS AND MPPT SOLAR CHARGE CONTROLLERS. According to the quality policy of our company, our Solar Panel Systems are unique by integrating innovative advanced TEACHIE solar solar PV modules using German solar BOSCH or Q CELLS, AMARAJHA and HRL, storage batteries having international standard certificate for assured quality and reliability.

We are proud to state that the Indian Railways, Union Territory of Lakshadweep, Indian Oil Corporation, Hindustan Petroleum, Indian Navy, SPOC, Kerala Petroleum Corporation, Kerala Civil Supplies Corporation, Bharat Electronics, KETK, etc. are some of our prestigious customers.

Technical Features

Solar Photo-Voltaic Power Plant

Solar PCU

- Model:** IRS-MP & IRS-ZD series
- Battery Input Voltage:** 24V DC, 36V DC
- Operating Grid supply:** 230V AC, single phase, 415 V AC, three phase +/- 15%
- Output Frequency:** 230VAC Single Phase / 415V AC Three Phase
- Disturbance Tolerant:** Dist. free
- Capacity:** 1 KVA to 50 KVA
- Over Load:** 150% / 1hr.
- Display:** LED & LCD
- Efficiency:** >95%
- Remote Monitoring:** SCADA Compatibility (Optional)
- Computer Compatibility:** RS 232 (Optional)
- Diagnose:** Automatic
- Maintain & Integrated Inverter:** Manual & Integrated Inverter
- Basic Charge Controller:** MPPT
- Make:** Iron Egan
- Operation:** Automatic & Manual
- DC-DC CONVERTER:** Fuel cell substitute
- PV Input Voltage:** 24V DC - 36V DC
- Operating Grid supply:** 230V AC, single phase, 415 V AC, three phase +/- 15%
- Output Frequency:** 230VAC Single Phase / 415V AC Three Phase
- Disturbance Tolerant:** Dist. free
- Capacity:** 1 KVA to 50 KVA
- Over Load:** 150% / 1hr.
- Display:** LED & LCD
- Efficiency:** >95%
- Remote Monitoring:** SCADA Compatibility (Optional)
- Computer Compatibility:** RS 232 (Optional)
- Diagnose:** Automatic
- Maintain & Integrated Inverter:** Manual & Integrated Inverter
- Basic Charge Controller:** MPPT
- Make:** Iron Egan
- Operation:** Automatic & Manual
- DC-DC CONVERTER:** Fuel cell substitute
- Interlocking Cable:** Cu-sheathed PVC, Insulated, PVC-sheathed, armored FRLS type.
- TYPE:** Double Induction Automatic charger through static switch. High-efficient inverter, PCBC (Automatic Hair cut Base Charging) type.



Metering & Indications

- a) Voltage and Current from Solar Array.
- b) Input Voltage and current
- c) Battery "charging" current and voltage with indication.
- d) Battery "discharge" current and voltage with indication.
- e) Annunciation for battery deep discharge.
- f) Charging Indication of battery from solar charge controller / grid charger.
- g) Mode of Charging - BOOST / FLOAT
- h) Motor voltage / Phase to phase and Phase to neutral
- i) Phase sequence and phase fault
- j) Grid supply frequency
- k) Load Limit percentage
- l) Earth fault indication
- m) Low Current
- n) Safety door lock indication



BATTERY BANK

Make	Type
EXIDE	Lead acid
VRLA	VRLA
Technology	TUBER TUBULAR: 1 liter tubular plates are chosen with low maintenance system which reduces the seeping of electrolyte under the battery low maintenance regime. This is also kept the float charging system in lower value. This reduces the total energy requirement needed to keep the battery in charge condition during standby float application.
TUBULAR GELL	Special maintenance free no seeping or vent. Excellent deep discharge capability, high voltage efficiency, Long shelf life.
Service life	4000 Cycles @ 20% DOD
Charge & Discharge Rating	C10 @25Deg
Nominal Voltage	6V & 12V MONO-BLOCK
Capacity @C10	40Ah to 1500Ah
Certifications	IEC 62259-1:15 BS 5959:1996 UL 1974:2016 UL 1973:2016 UL 1974:2016 UL 1973:2016

BATTERY BANK

Make	Type
AMARAJHA	HRL
VRLA GEL	Nickel Cadmium
Technology	AGM type gas recombination technology, sealed maintenance free no seeping or vent. Excellent deep discharge capability, high voltage efficiency, Long shelf life with no venting / gas emission.
Nickel Cadmium Ducker Plate	Unsurpassed tolerance to electrical abuse, good charge retention. Quick recharge capability. Wide operating temperature range. No emission of corrosive gases. Flame-arresting vent protection. Minimal maintenance requirement. Long shelf life.
Service life	4000 Cycles @ 20% DOD
Charge & Discharge Rating	C10 @25Deg
Nominal Voltage	2V basic cell
Capacity @C10	100Ah to 6000Ah
Certifications	Batteries conform to IEC 60896-2:2002, IEC 60947-1:2007, IEC 60947-2:2007, IEC 60947-3:2007, IEC 60947-4:2007, IEC 60947-5:2007, IEC 60947-6:2007, IEC 60947-7:2007, IEC 60947-8:2007, IEC 60947-9:2007, IEC 60947-10:2007, IEC 60947-11:2007, IEC 60947-12:2007, IEC 60947-13:2007, IEC 60947-14:2007, IEC 60947-15:2007, IEC 60947-16:2007, IEC 60947-17:2007, IEC 60947-18:2007, IEC 60947-19:2007, IEC 60947-20:2007, IEC 60947-21:2007, IEC 60947-22:2007, IEC 60947-23:2007, IEC 60947-24:2007, IEC 60947-25:2007, IEC 60947-26:2007, IEC 60947-27:2007, IEC 60947-28:2007, IEC 60947-29:2007, IEC 60947-30:2007, IEC 60947-31:2007, IEC 60947-32:2007, IEC 60947-33:2007, IEC 60947-34:2007, IEC 60947-35:2007, IEC 60947-36:2007, IEC 60947-37:2007, IEC 60947-38:2007, IEC 60947-39:2007, IEC 60947-40:2007, IEC 60947-41:2007, IEC 60947-42:2007, IEC 60947-43:2007, IEC 60947-44:2007, IEC 60947-45:2007, IEC 60947-46:2007, IEC 60947-47:2007, IEC 60947-48:2007, IEC 60947-49:2007, IEC 60947-50:2007, IEC 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