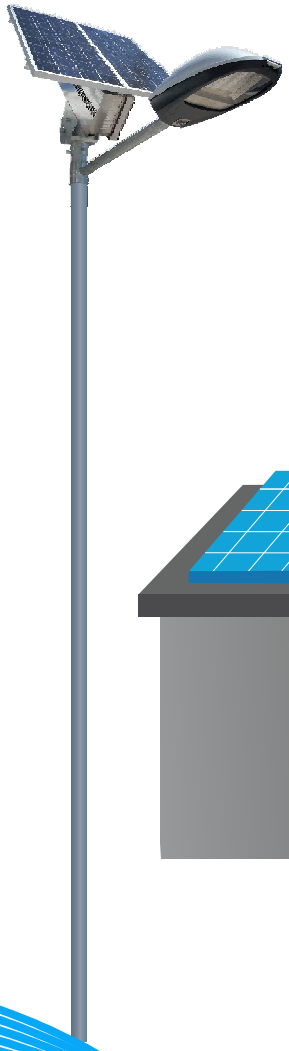
ISO 14001:2004

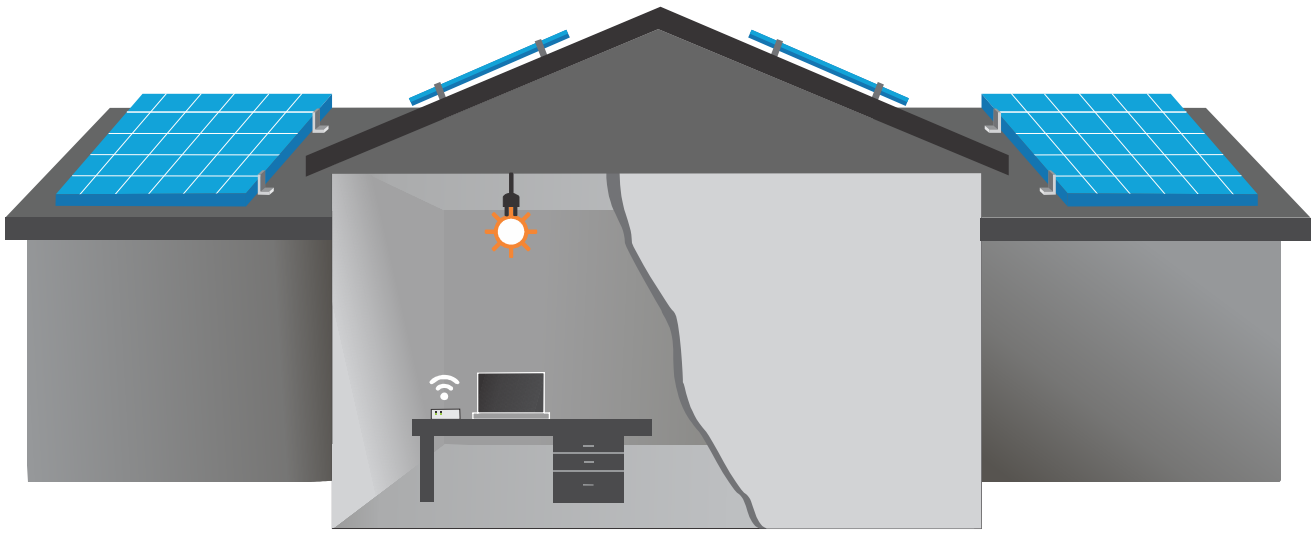
Arrow™

ISO 9001:2008



Committed to Green Energy

Arrow Solar System



Arrow SPI series
Solar Hybrid Inverter

Off-Grid and On-Grid Systems

Intelligent Energy Management

Expandable and Configurable as per need

Cutting Edge Technology for Optimum Efficiency

Adjustable to Wide Range Of Operating Environment

Over the years Arrow™ brand has become synonymous with two words - Quality and Service. With a Brand as powerful as ours and inherent strength in technology, we have progressed into one of the major supplier of Power Electronics Products. Our State-of-the-art infrastructure and commitment to achieve customer satisfaction ensures that we are always at the cutting edge of the technology as well as manufacturing product that provide value for money for years.

Arrow™ Solar System Features

A solar system by nature can be fully comprehensive or partial comprehensive with either off-grid or grid-tie system and with or without backup power.

Arrow™ Solar System is configurable, expandable and adjustable as per customer need. Solar PV system includes different components that should be selected according to your system type, site location and applications.

Arrow™ Solar System are available from 50VA to 50KVA capacity with Panels ranging from 5W to as per design requirement. The major components for solar PV system are SPV Modules, Solar Charge Controller, Hybrid-inverter, Battery bank, auxiliary energy sources and loads (appliances).

SPV Modules
Mono/Multicrystalline Silicon Solar cells with Bypass diodes and conforming to IEC standards.

Combiner
A solar combiner box combines several solar panels into single DC output to connect to the charge controller or hybrid-inverter.

Hybrid Charge Controller cum Inverter
Combined with PWM/MPPT charge controller, this hybrid inverter charges the battery as well as provide power to connected loads by utilizing PV power, utility power and battery power as per priority set.

Battery
Low maintenance SMF VRLA or Tubular type ISO and IEC certified batteries provide backup power.

Auxiliary Energy Sources
A diesel generator or other renewable energy sources.

Accessories
Application specific Module mounting of MS angle/pipe/pole and duly galvanized or powder coated to avoid corrosion; Junction boxes for proper termination & distribution of cables; Cables and hardware.

Solar Hybrid Inverter:		TECHNICAL SPECIFICATION				
Type		Single Phase Hybrid Solar Inverter				
Technology		Micro-controller/DSP based PWM/MPPT Technology				
Power Device		Mosfet / IGBT				
Output Waveform		Sinewave				
Capacity	VA	800VA	1000VA	1500VA	2KVA	3KVA
	Model	SPI800	SPI1000	SPI1500	SPI2000	SPI3000
Input Range / Freq.	Wide Mode	120-280 Vac +/- 5V, 47-53 Hz				
	Narrow Mode	180-270 Vac +/- 5V, 47-53 Hz				
Output Voltage	Battery Mode	220/230 Vac +/- 10%				
Output Frequency		50 Hz +/- 0.5 Hz				
Output Power Factor		0.7				
Battery	Voltage	12V	12V	24V	36/48 V	48V
	Charging Current (Grid)	8 - 10 Amp +/- 2A				
Solar Charge Controller	Type	PWM / MPPT				
	Max PV Voltage	25V max for 12V and in multiple				
	Charging Current	10 - 50 Amp (As per customer requirement / PV rating)				
Protections	Input (Grid)	Input High/Low Cutoff, Short Circuit				
	Output	Short Circuit and Overload				
	PV	PV Reverse Polarity				
	Battery	Battery Low, Battery Overcharge, Controlled Charging Current				
	Other	Over Temperature, Fan Failure				
Indications and	LED/LCD	Mains mode, Backup mode, PV charge, Battery Low, Overload, Fault				
Environment	Operating Temperature	0 -45 deg C				
	Relative Humidity	0-95 RH @ 0-45 degC non-condensing				
	Thermal	Fan and Heatsink				

✓ISO 9001:2008

✓ISO 14001:2004

Optional:

- *Monitoring Software*
- **Tailor-made design solution**
- **LED luminaries**

Other Product line: Online UPS, LI UPS, Home UPS Systems, Stabilizers, entire range of Solar & LED Products

Arrow™

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