

Harnessing the Power of the Sun



3 KW to 100 KW

Grid sharing/Hybrid **SOLAR UPS** 3 KW to 100 KW

Featured products:

Solar inverter specially designed for irrigation pump set.

Three phase solar inverters for industrial application, farm house, resorts, lifts and emergency lighting systems without battery and grid.

Application-specific solar UPS for:

- Educational institutions
- CT, MRI and ultrasound scanners



TECHNICAL SPECIFICATION



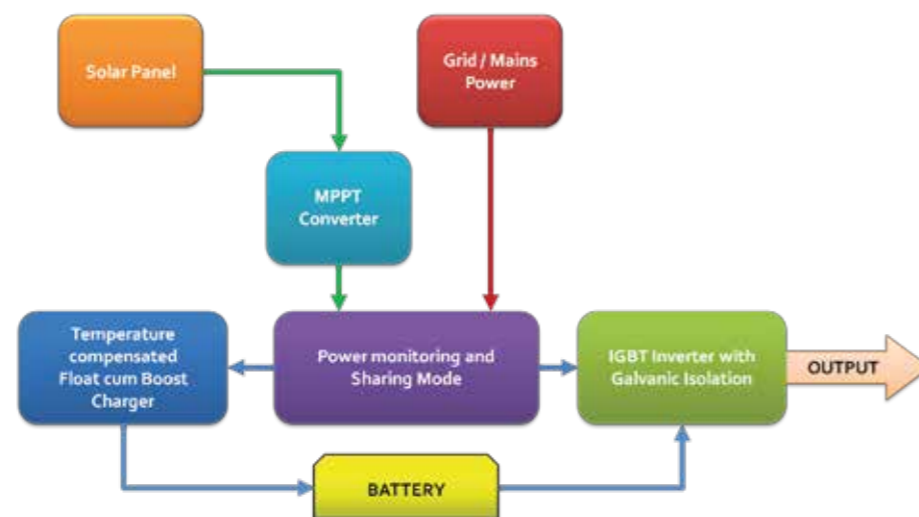
3 KW to 100 KW

PERFORMANCE EVALUATOR

Evaluates the performance of your solar installation using built-in multi functional user friendly LCD Solar energy meter, along with real time solar watt meter. Displays the solar energy generated and utilised in KWH (units).

GRID sharing SOLAR UPS

- > Excellent load sharing between Solar and Grid.
- > Ensures 100% utilization of Solar power by using highly efficient built-in MPPT Converter.
- > Rugged Industrial grade IGBT inverter with complete galvanic isolation, ensures high quality power delivery.
- > High efficiency battery charger ensures extended battery life by providing temperature compensation and Float cum Boost charging.



MODELS	SPF101	SEC301	SEC 303
Technology	Double conversion Online with the latest MPWM technology using IGBT.		
Rating	1Ø Input - 1Ø Output	3Ø Input - 1Ø Output	3Ø Input - 3Ø Output
Capacity	3KW~10KW	10KW~40KW	10KW~ 100KW
DC Bus	96V - 192V	192V - 360V	360V

SOLAR INPUT			
Solar input technology	Converter with MPPT charge controller		
Operating MPPT Voltage	150V - 220V	180V - 330V	330V
Maximum Panel current	50A	100A	250A
Reverse Polarity Protection	Short circuit diode		
Back feed protection	Protected using reverse diode		
MPPT efficiency	96% (peak)		
Configuration	Grid sharing		
Sharing method	Parallel operation of Solar and Grid Power		
Sharing percentage	0-100%; depends upon intensity of solar power against the power demand of the load		

BATTERY			
Battery type	SMF / Tubular		
Charger type	Float cum boost		
Temperature compensation	5mv/Cell/°C variation		
Charging current	0 - 30A	0 - 40A	0 - 50A

INVERTER			
Inverter type	IGBT based MPWM with instantaneous sinewave		
Power factor	0.8 lag		
Nominal voltage	230V / 50Hz	230V / 50Hz	400V / 50Hz
Balanced load regulation	(± 1%)	(± 1%)	(± 1%)
Unbalanced load regulation	N.A	N.A	(± 1%)
Unbalanced load phase shift	N.A	N.A	120° ± 0.5°
Over load capacity	125% - 1 min : 150% - 10 sec		
Crest factory	3:1		
Protections	• Under / Over voltage • Over temperature • Battery low • Over load • Short circuit		
Efficiency testing as per IEC 61683 Overall efficiency - 100% load	90%	92%	93%
Testing standard	As per IEC 62040-3 / IEC 61683		
Multi-functional Solar LCD Energy Meter Indications	• Solar voltage • Solar current • Solar power • Input voltage • Output voltage • Battery voltage • Solar energy generated (generated and delivered to Load) • Load current		

UTILITY POWER INPUT			
Input voltage	230V - 1Ø	3Ø - 4 wire	3Ø - 4 wire
Input voltage window	170 - 270V	330 - 470V	330 - 470V

Note: Specifications are indicative to our standard models and are subject to change without notice.

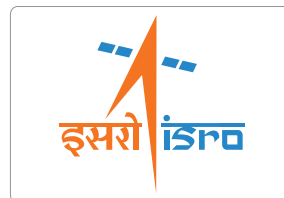
APPROVED VENDOR FOR*

CORPORATE OFFICE / WORKS

ARVI Systems & Controls Pvt Ltd.
 80/A2, 1st Main, 3rd Cross, 2nd Phase
 Industrial suburb, Yeshwanthpur
 Bangalore 560 022, Karnataka, India

SALES / SUPPORT

Phone: +91-80-4155 8550 (5 lines)
 +91-80-23470657 / 23470658
 enquiry@arvipus.com
 associates@arviups.com



CE Our products are evaluated and endorsed by government laboratory as per specified IEC standards for safety, EMI and performance.

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* A partial list.