


UJWAL BHARAT




Ali SherKhan (Founder & Owner)



 Near Pankha Circle, Market Road, Churu -331001 (Rajasthan) INDIA

 +91 9024 254 254

 <https://ujwalbharat.com/>

 info@ujwalbharat.com

UJWAL BHARAT



ABOUT US

OUR DREAM IS TO UNLOCK THE POTENTIAL OF SOLAR ENERGY

BY USING OUR TECHNOLOGY, EXPERIENCE, SYNERGY & TO DESIGN TO DELIVER PRODUCTS IN SOLAR CONTROLLERS THAT MAKE POSITIVE LIVELIHOOD CHANGES EVERYWHERE, WHERE SUN GOES.

WHO WE ARE

Ali Sher Khan founded Ujwal Bharat and developed 3rd Generation Solar Power Controller unit called SPCM (Sinusoidal Pump Controller with MPPT) for Solar Water Pumping. Since then this "Smart Controller" has already been recognized and awarded certificates of excellence by various agencies. Then they invented a Life changing Product called U&SPC (Universal & Single Phase Controller) for Irrigation as well as Domestic use & U&SPC is the only controller of its kind in the World UB Solar System (Global Distributor) is the Marketing & Distribution arm of KAYAM Solar and working closely with many Big Names of the Industry and State Governments.

Coming from diverse backgrounds; our team members offer their unique experiences to collaborate in offering products and services using New Generation Technologies.

WHAT WE DO

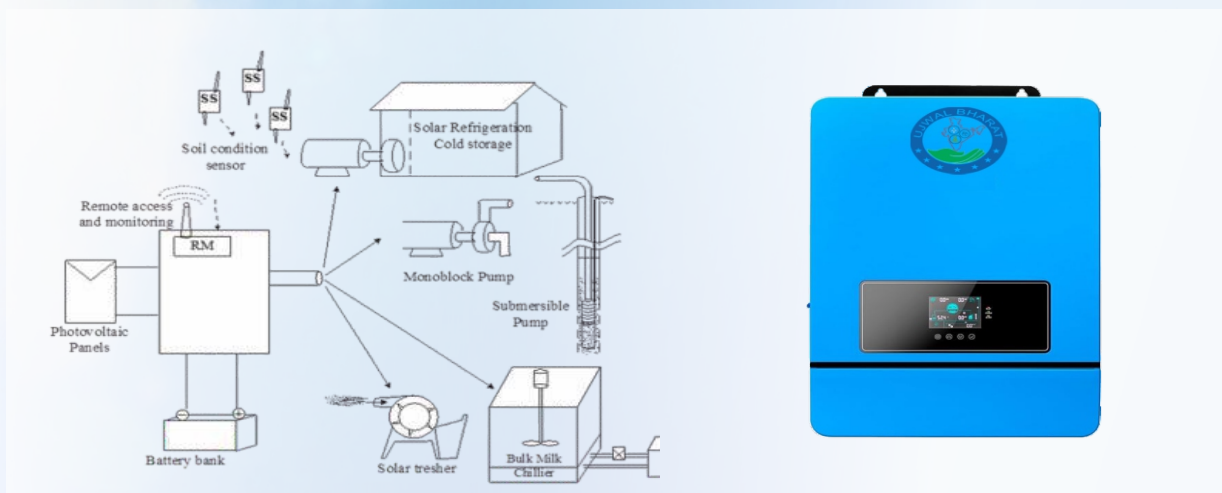
UB Solar System specializes in offering Solar Controllers using advanced technology that not only offers more Power to the Customers, with far lesser maintenance but also increase in Productivity & Income; Customers can manage and operate their systems independently and there is No need of dependency on Grid or Battery Bank.

We do this by offering solutions based on their needs through components that offer best performance with least maintenance requirements.

OUR VISION

Our vision "TO CHANGE LIVES FOR THE BETTER, FOREVER" arises from the belief that no one is fully empowered unless they have the ability to be independent. By providing energy solutions that are generated and consumed at the point. Which offers more Power and cleaner Energy. We see the Cleaner Energy as segment that needs to be developed for the sustainable growth of a nation.

We can generate power whenever there is Sun.



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UNIVERSAL CONTROLLER

INDUSTRIES

- DAIRY INDUSTRIES
- FISHERY
- MEAT INDUSTRIES
- COFFE/TEA PLANTATION
- EDIBLE OIL EXTRACTION
- POWDERING OF SPICES & OTHER CROPS
- EXTRACTION OF PULP & JUICES FROM HORTICULTURAL CROPS
- IRRIGATION
- BRICK KILN
- COLD STORAGE/BULK MILK CHILLER
- RICE MILL/ FLOUR MILL ETC.



UNIQUENESS

- BATTERY LESS OPERATION
- 3 PHASE & 1 PHASE COMBINED IN UNIT
- POWER DOMESTIC LOAD LIKE BULB/FAN, 1 TON INVERTER A.C ,MOBILE CHARGER,COOLER, COMPUTER,LAPTOP, REFRIGERATOR, T.V, INDUCTION PLAT ETC.

EXCLUSIVE ADVANTAGE FOR BENEFICIARIES

- **DESIGNED TO INCREASE** LAND AND RURAL LABOUR PRODUCTIVITY DECREASE INPUT COST OF FERTILIZER & ENERGIES IN AGRICULTURE & PROPELS SUSTAINABLE ORGANIC FARMING.
- **DESIGNED TO TRANSFORM** FARMERS FROM PRIMARY PRODUCERS TO FINISHED PRODUCTS & ADD VALUE TO THE CROP AND INCREASE THEIR INCOME.
- **DESIGNED TO PROVIDE** FREE ENERGY (NO FOSSIL FUEL) TO POST HARVEST OPERATIONS LIKE THRESHING, WINNOWER, CHAFFING ETC.

KEY HIGHLIGHTS

- **PROTECTION AGAINST REVERSE INPUT** SOLAR CONTROLLER IS DESIGNED TO PROTECT AGAINST REVERSE POLARITY
- **FAULT MESSAGE FOR MOTOR CLOGGING/JAMMING:** IT PROVIDES A FAULT MESSAGE IN CASE OF MOTOR CLOGGING OR JAMMING, ALERTING THE USER TO POTENTIAL ISSUES.
- **AUTO-CUT FOR DRY RUNNING:** THE CONTROLLER AUTOMATICALLY CUTS OFF POWER IF THE MOTOR PUMP IS RUNNING IN A DRY CONDITION, PREVENTING DAMAGE TO THE PUMP
- **CABLE SHORING PROTECTION:** IN THE EVENT OF CABLE SHORTING, TAG SOLAR CONTROLLER DETECTS THE FAULT, GIVES A FAULT MESSAGE, AND SWITCHES OFF TO ENSURE SAFETY
- **OPEN MOTOR PUMP CONNECTION PROTECTION:** IF THE MOTOR PUMP CONNECTION IS OPEN, THE CONTROLLER AUTOMATICALLY CUTS OFF POWER AND DISPLAYS A FAULT MESSAGE.
- **REMOTE MONITORING:** UJWAL BHARAT CONTROLLER ALLOWS FOR REMOTE MONITORING, ENABLING CONTROL AND MONITORING OF THE.
- **DATA STORAGE** IT SUPPORTS THE USE OF SD CARDS TO STORE DATA, ALLOWING FOR THE STORAGE OF UP TO 7 YEARS' WORTH OF DATA.

UJWAL BHARAT



UNIVERSAL CONTROLLER TECHNICAL DATA SHEET

Parameter		3HP	5HP	7.5HP	10HP
PV Input					
Min. Voc Voltage	[Voc]	280	280	420	500
Nom. Voc Voltage	[Voc]	380	380	580	650
Max. Input Voltage	[Voc]	415	415	600	670
Max. Input Current	[A]	9	18	18	18
Motor - Pump Output					
Output, Phase		3 phase			
Output Voltage	[AC]	0-400 V			
Output Frequency	[Hz]	5-54 Hz			
Output Current	[A]	5.5	9	11.5	15.5
Motor Types		AC INDUCTION			
Protection		Short Circuit, Motor Stall Dry Run			
Other Motor Output					
Output, Phase		3 phase			
Output Voltage	[AC]	0-400 V			
Output Frequency	[Hz]	5-54 Hz			
Output Current	[A]	0-5	0-8	0-11	0-15
Power Factor Range		0.7-0.99			
Protection		Short Circuit, Motor Stall, Motor-Jam			
Single Phase Output					
Output		1.6Kva		3.3Kva	5Kva
Output, Phase		1 phase			
Output Voltage	[AC]	0-240 V			
Output Frequency	[Hz]	50 Hz			
Output Current	[A]	5	10	11	20
Motor Types		AC INDUCTION			
Protection		Short Circuit, Motor Stall Dry Run			
Display & Communication					
Display Type		16 x 2 LCD			
Status Indicator		ON, OFF, Fault with appropriate Massage			
Serial Communication		RS485			
Remote Monitoring		IN BUILT GSM/GPRS			
Wifi		NA			
Bluetooth		NA			
Other Info					
Max Ambient Temperature	[°C]	60			
Max. Relative Humidity	[%]	80			
IP Degree of protection		IP 54			
Weight	[kg]	17			
Size (H)	mm	400			
Size (W)	mm	360			
Size (D)	mm	230			

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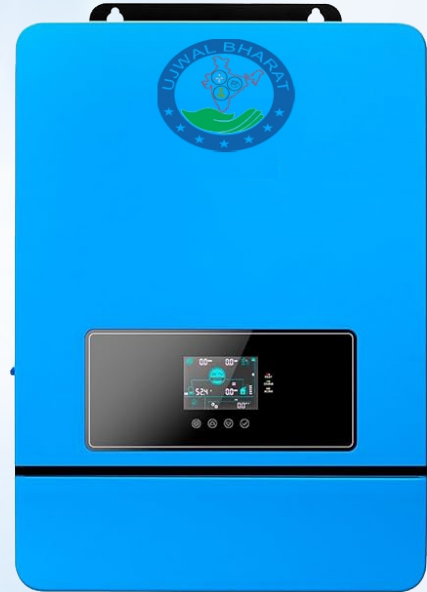
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UB SINGLE PHASE

- **BATTERY-FREE OPERATION:** UBSOLAR CONTROLLER CAN RUN WITHOUT BATTERIES, ELIMINATING THE NEED FOR BATTERY CONNECTIONS AND REDUCING SYSTEM COMPLEXITY.
- **PURE SIN WAVE OUTPUT:** IT PROVIDES A PURE SINE WAVE OUTPUT, ENSURING A CLEAN AND STABLE POWER SUPPLY TO CONNECTED DEVICES.
- **LOW HARMONIC DISTORTION:** UB SOLAR CONTROLLER HAS A HARMONIC DISTORTION OF VOLTAGE OF LESS THAN 3%, MINIMIZING ELECTRICAL NOISE AND ENSURING EFFICIENT OPERATION OF SENSITIVE EQUIPMENT.
- **SHORTCUT PROTECTION:** IT OFFERS SHORTCUT PROTECTION, SAFEGUARDING HOME APPLICATIONS FROM ELECTRICAL FAULTS AND ENSURING THE SAFETY OF CONNECTED DEVICES.
- **EASY INSTALLATION:** SOLAR CONTROLLER IS DESIGNED FOR EASY INSTALLATION, ALLOWING FOR CONVENIENT SETUP AND INTEGRATION INTO EXISTING SYSTEMS.
- **BATTERY CHARGING CAPABILITY:** UB SOLAR CONTROLLER CAN ALSO BE USED TO CHARGE HOUSE BATTERIES THROUGH A SEPARATE CHARGE CONTROLLER, PROVIDING ADDITIONAL FLEXIBILITY AND FUNCTIONALITY.



APPLICATION :
HOME APPLIANCES
LIGHT, FAN, FRIDGE, TV,
INVERTER AC, COMPUTER,
MIXER, INDUCTION PLATE,
COOLER, HEATER, ETC

COMMERCIAL USES
AERATOR,
CHILLING PLANT,
AIR COMPRESSOR,
AND ANY OTHER
SINGLE PHASE
MACHINERIES

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UB SINGLE PHASE TECHNICAL DATA SHEET

Parameter		1.2KVA	2.2KVA	3.2KVA	5KVA
PV Input					
Min. Voc Voltage	[Voc]	160	360	420	500
Nom. Voc Voltage	[Voc]	220	420	580	650
Max. Input Voltage	[Voc]	230	420	600	650
Max. Input Current	[A]	9	9	18	18
Single Phase Output					
Output, Phase		1 phase			
Output Voltage	[AC]	0-240 V			
Output Frequency	[Hz]	50 Hz			
Output Current	[A]	5	10	11	20
Motor Types		NA	AC INDUCTION		
Protection		Over Power Tripping	Short Circuit, Motor Stall Dry Run		
Load					
Light, Fan		✓	✓	✓	✓
Washing Machine		✓	✓	✓	✓
Motor		✗	2Hp	3Hp	3Hp
Inverter, AC		✗	1.5 Ton	1.5 Ton	1.5 Ton
Low Induction Machine		✓	✓	✓	✓
Display & Communication					
Display Type		LED	16 x 2 LCD		
Status Indicator		ON, OFF	ON, OFF FAULT WITH APPROPRIATE MESSAGE		
Serial Communication		NA	NA	RS485	
Remote Monitoring		NA	NA	In Built GSM/GPRS	
Other Info					
Max. Ambient Temperature	[°C]	[°C]	60		
Max. Relative Humidity	[%]	80			
IP Degree of protection		IP 20		IP 54	
Weight	[kg]	6	10	17	
Size (H)	mm	125	260	400	
Size (W)	mm	343	270	360	
Size (D)	mm	254	160	230	

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UB SINGLE PHASE



- SOLAR REALTIME OPERATION WITHOUT BATTERY
- BATTERY CHARGING FACILITY
- MAKE YOUR OWN GRID
- OVER POWERTRIPPING
- POWER ALL SINGLE PHASE MACHINE AND APPLIANCES

UB UNIVERSAL CONTROLLER




- SOLAR REALTIME OPERATION WITHOUT BATTERY
- CAN RUN THREE PHASE EQUIPMENT INCLUDING MOTOR, ATTA CHAKKI ET
- CAN RUN THREE PHASE EQUIPMENT INCLUDING MOTOR, ATTA CHAKKI ET
- ALL TYPE OF PROTECTION FOR THREE PHASE AND SINGLE PHASE
- DATA STORAGE INBULT
- ALL SYSTEMS ARE CONNECTED WITH THE SERVER BY USING INBUIL GPRS/GSM MODULE

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