





10KVA-40KVA 3Ø-3Ø

## **Features**

- Double conversion online UPS
- Input power factor near unity
- Low Input current distortion
- Active power factor correction
- High efficiency
- Inbuilt galvanic isolation transformer
- Advanced network connectivity
- IGBT based design

## **Optional**

- Mobile Connectivity
- Redundant UPS for 24X7 operation (hot standby and load sharing)
- Harmonic filter at the UPS input (Active / Passive)
- RS 232 Interface







				ONLINE (	UPS 3ph-3ph	
Technology	Double con	version Onli	ne with the lat	test MPWM t	technology us	sing IGBT
CAPACITY	10 KVA	20KVA	30KVA	50KVA	80KVA	100KVA
DC BUS	360 V				0011171	20011171
INPUT						
Input Voltage	415 V 3Ph ar	nd N				
Input Voltage Window	330 - 470V					
Input Frequency	45-55Hz					
Input PFC	> 0.95					
Power	Soft start for	0 20 seconds	power			
Rectifier	IGBT based	Full bridge				
Voltage Regulation	(+)1%					
Ripple Voltage	< 2%					
Converter Protection			ection for device fast acting fuse	•	ed	
INVERTER	·		_			
Inverter Type	IGBT based	MPWM with i	nstantaneous S	Sinewave Con	trol	
Power Factor	0.8 lag					
Nominal Voltage	220VAC / 23	OVAC				
Regulation	(±)1%					
Frequency	50Hz ± 1Hz					
Total Harmonic Distortion	<2% for linea	ar load, <6% fo	or non linear lo	ad		
Over Load Capacity		•	-1 Minute : 150			
Transient Response	Remains wit	:hin +/- 5% & i	ecover to norr	mal within 20	msec	
Nominal output current	10 A	20A	30A	50A	80A	100A
Crest Factor	3:1					
Mode of Operation	Designed fo	r Continuous	operation			
Waveform	True Sinewa	ave				
Unbalanced Load Phase Shift	120°± 0.5°					
ISOLATION	True Online	with complet	e galvanic isola	ation.		
Inverter Protection	& fast actin	g fuses,high s	ection for devi beed pulse by protection, Elec	pulse electror	nic device prot	•
BYPASS	0 ,	0 1	,		•	
Manual Bypass	Provided					
Static bypass(Optional)	Optional Fe	ature				
EFFICIENCY	·					
Efficiency - 100% load	>86% to > 8	88 %				
BATTERY						
Battery Type	SMF/ TUBU	ILAR				
No. of Batteries	30					
Voltage	360 V					
Battery Low advance warning at	11 V / batte	•				
Battery Low cut off at CHARGER	10.5 V / Ba	itery				
Charging Current Standard	0-10 A					
ALARMS	UIUA					
	Input / Low	/ Fail				
	Output Ove	erload				
	Over Temp	erature				
	Battery low	1				
User Friendly LCD Display shows the						
	Input Volta					
	Output Vol	_				
	Load curre					
	Output Fre					

Battery Voltage

Electrostatic discharge protection

as per IEC 62040-2

## TECHNICAL SPECIFICATION

ONLINE UPS 3ph-3ph

LED INDICATIONS (Single LED with multi function )					
	Mains on				
	UPS on				
	Battery Low				
	Overload				

### **PROTECTIONS**

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Output Under Voltage Output Over Voltage	Protects the load and its components from premature failure.
Output Single Phase prevention	Protects the connected three phase loads & its components from premature failure.

Output short circuit with pulse Protects against false tripping & complete shutdown in case of surge by pulse current limit up to power drawn by the load (non linear loads) 200µsecs.Protects 300% for 15 msecs,500% for 5msec &1000% for 1.5 msec of the rated current

Neutral drift Galvanic isolation provides complete isolation between output neutral Neutral failure and Input & the the output is fully protected against neutral drifts, Lightning voltage avalanches like lighting & input harmonics commonly found in EMI & Harmonics in the input the input side. neutral High voltage transient protection &

## PROTECTING THE UPS

Input MCCB/MCB	Protects the input from very large current caused by short circuit or due to a damaged internal component and avoids further damage to the equipment.
Input Under Voltage / Over Voltage	Prevents damage of components in the input sensing & the converter devices.
Rectifier Over Voltage	Prevents damage to the inverte & the charge
Over Temperature Protection Battery Low protection	Protects the Inverter & Converter magnetics and switching devices against premature failure.
Over Load protection Short circuit protection	Protects the Inverter components against premature failure.
Input Under Voltage / Over Voltage 'High voltage transient protection & Electrostatic discharge protection as per IEC 62040-2	Prevents damage of components in the input sensing & the converter devices.
External Magnetic field Protection	Protects against external power frequency magnetic field
ENVIRONMENTAL	

ENVIRONIVIENTAL	
Acoustic Noise level	<60db @ 1.5 meter
Ambient Temperature	0 to 40 Deg C
Storage Temperature	-10 to 70 Deg C
Humidity	Up to 95% RH Non condensing
Altitude	< 3000 Feet above sea level (without derating)
Extreme climatic conditions	AC Environment is required if the temperature goes beyond the normal operating temperature (0-40 deg C)

# DHACICVI

PHYSICAL	
Enclosure Protection Grade	IP - 20
Cooling	Forced Air
Cable Entry	Front side bottom
Testing Standard	As per IEC 62040 - 3

Protect Solar Charge Controller from direct Sunlight & Water.

Panel open circuit voltage should not to do be more than specified voltage

\*Specification are subject to change without prior notice due to constant improvement in design & technology.

**Authorised Dealer** 



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