

# RUDRA POWER EQUIPMENTS (I) PVT.LTD.



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## Strengths of our MFG Partner (Since - 1989)

RUGGED DESIGN FOR TOUGH INDIAN ENVIRONMENTAL CONDITIONS

- EXPORTED PRODUCTS TO GULF, RUSSIA AND SOUTH AFRICA ISO 9001 CERTIFICATION
- SUPPLIED SYSTEMS FOR DEFENSE APPLICATIONS

IN HOUSE MANUFACTURING OF WOUND COMPONENTS SO CUSTOMISATION AND UPGRADATION IS EASILY POSSIBLE

AFTER SALES SERVICE AVAILABLE FROM MAJOR CITIES ACROSS THE COUNTRY

GUARANTEED SPARES SUPPORT AND REASONABLE COST OF OWNERSHIP

Rudra Power Systems is a professionally managed organization contributing to the field of Electronic Power Back up Systems
Through it's Online UPS, Off Line UPS, Home UPS, SFC,
Stabilities, Chargers etc. The company also deals in all types of battery systems, The strength lies in its capability to design according to the customer's all types of requirements.

# **PRODUCTS**

RUDRA True On-Line UPS / SFC Range = 1 KVA = 10 KVA (1Ph = 1 ph) 10 KVA = 30 KVA (3 Ph = 1Ph) 15 KVA = 500 KVA (3 Ph = 3 Ph)

- Wide range of Input Supply Voltage to suit Indian conditions
- Custom built design is possible as per User specifications
- Latest Technology Compact size
- True ON-LINE Design
- High Performance; High Efficiency with near unity power factor
- Excellent Voltage Regulation and Transient Response
- Comprehensive and User friendly LCD Display with Mimic
- Support all types of Battery Systems
- **Extended Run Time Facility**
- Diesel Gen set Compatible
- Optional Intelligent Computer Interface
- Optional Auto By-pass facility

#### RUDRA Sine Wave SOLAR INVERTER/UPS Range – 600 VA onwards

True Sine Wave output • High Frequency PMW design

INVERTER / UPS Mode availability as per user requirement

Extremely Compact size • Easy to install and Operate

Extended battery backups possible

In built Manual Bypass switch arrangement,

**Optional Battery Reverse Protection** 

**Output Short Circuit Protection** 

#### **APPLICATIONS**

**DATA CENTERS** 

IT & ITES

SOLAR/ WIND POWER GEN.

**BUILDING MANAGEMENT** 

**EDUCATION** 

TELECOM EQUIPMENT

**EDUCATION** 

**TELECOM EQUIPMENT** 

SATELLITE EARTH STATIONS

**BANKING** 

**DEFENSE** 

**R & D CENTERS** 

**BIO-MEDICAL EQUIPMENT** 

INDUSTRIAL INSTRUMENTATION

**MACHINE TOOLS** 

PHOTO COPYING MACHINES

#### RUDRA Off Line 1 ph. & 3 ph. UPS Systems Range - 6 KVA – 150 KVA

Extremely efficient & fully automatic

Back up for single / multiple elevators from single unit possible

Compatible for all types of elevators

Extremely Compact size

User friendly Display with simple operation

Easy to Install and Operate

Extended battery backups possible

Optional Remote Display and Announcement

### **Emerging Features Of Rudra Systems**

- Built In AERD Hence Trapping In Side the lift is nullified in case of battery low trip. Also Avoids unnecessary panicness (Only for Off line UPS)
- IGBT Techmology Improoves the up time guarntee up to 99% by reducing break dawns.
- 3 phase Charger avoids the heavy loading on single phase and distributes the charging current on three phases equally.
- ☑ Unity Power Factor (Optional) reduces the electricity
- Auto phase reverse correction (optional)
- ✓ Isolation Avoids Shock at Battery terminals

# **LCD Information Display**

LIFT IS RUNNING ON MAINS SUPPLY LIFT IS RUNNING ON UPS, BAT OK

Do you know which supply the lif is working on? Auto emergency rescue device can inform you whether the lift is working on mains or on battery backup

UPS BAT.LOW. PLZ DO NOT USE LIFT When will the lift stop working in case of low battery?

Lift may stop working at any moment before the ups is trip

UPS BAT.LOW.
PLZ DO NOT USE LIFT

Battery is completely discharged & may stop any time

In such cases UPS will trip any time after completing the call.

SINGLE PHASING PLZ CALL MSEB PHASE REVERSAL CALL ELECTRICIAN

Is your lift working on battery supply for no reason? Know its reasons like single phasing /phase reversal to prevent unnecessary discharge of battery

Will get high quality power throughout the life

solutions

Emergency landing facility Backup history record for easy diagnoses &

DIFFERENCE BETWEEN GENERATOR & UPS							
	DG SET	UPS					
PRICE	High capital cost per KVA  Auto start Panel  Sound proof Canopy.  Foundation, Installation & Commissioning cost.  Battery & Battery Charger Cost  Lessening Cost for Obtaining MSEB & Pollution Control Board Permission.  Exhaust piping for smoke up to top floor. Fuel storage license is required	Cost involves only UPS Systems Cost. Battery Set Cost					
RUNNING COST	<ul> <li>Diesel Consumption even when working on no-load</li> <li>No Load Consumption is around 80%</li> <li>Attendant required to keep record of diesel requirement, Preventive maintenance schedule, to carry out battery charging once in a day, for keeping DG SET in working condition.</li> <li>To keep DG-SET batter in charged condition, starting of DG SET for 5 to 10 min. 5. a day is recommended for battery charging. This adds to fuel consumption</li> <li>Very high maintenance cost</li> <li>Running cost may increase depending upon fuel price fluctations</li> </ul>	<ul> <li>Battery replacement cost required after 3 years works out to be cheaper compared to diesel cost required for 3 years.</li> <li>Battery energy is consumed according to load</li> <li>No load consumption is as low as 3%</li> <li>Very low maintenance cost</li> <li>Fixed Running cost a long period (Battery life span)</li> </ul>					
POLLU- TION	<ul> <li>As it runs on diesel emits smoke Fumes, gases contiguously.</li> <li>Very noisy</li> </ul>	<ul> <li>Does not emit smoke, fumes or any gases. No noise.</li> <li>Absolutely Environment Friendly &amp; noise.</li> </ul>					
SIZE	Very large space is required to install	Very less space is required					
UFE	<ul> <li>Life of DG-SET depends on regular maintenance. Can get 10 to 15 years life it maintained properly.</li> <li>But since it consists of moving part, regular wear &amp; tear is common factor. Maintenance cost &amp; cost of spare is high.</li> </ul>	<ul> <li>Does not consist of any moving part. So, no wear &amp; tear.</li> <li>Can get life of 20 years if kept in clean environment.</li> <li>Battery life is 3 years to 7 years depending on battery type</li> </ul>					

Power quality, efficiency, Diesel consumption, noise level & pollution will

Protection against overload, short circuit, & other such problems which may

detroite depending on wear & tear.

	Standard Rating					
	1KVA - 10KVA	7.5 KVA - 30 KVA	15 KVA - 150 KVA			
INPUT						
Voltage	230 V AC - 1 Ph	415 V AC - 3 Ph 4 Wire	415 V AC - 3 Ph 4 Wire			
Operating Range	170 V - 265 V	345 V - 475 V	345 V - 475 V			
Frequency	50 Hz					
Frequency Range						
Power Factor	> 0.8		> 0.92			
OUTPUT						
Rating	1/2/3/5/7.5/10 KVA	7.5/10/15/20/25/30 KVA	15/20/25/30/40/45/50/60			
			75 / 80 / 90 / 100 / 120 / 150 KVA			
Voltage	220 / 230 V AC		400 / 415 V AC			
Voltage Regulation	± 1%					
Power Factor		0.8 lag to unit				
Crest Factor	3:1					
Frequency	50 / 60 Hz					
Frequency Regulation	± 0.1%					
Wave Form	True sign wave					
Harmonic Distortion	THD < 3%					
Overload Rating	150% for 30 Seconds					
Transient Response	1	5% for full load chang	e			
Response Time	Recovery to ± 2% within 5 msec		msec			
DC Link						
Nominal DC Voltage	2,3 Kva:48 - 144 v	10, 15 Kva : 240/360 v	15 Kva : 240/360 v			
	5 Kva: 120 / 144 / 180 v	20 Kva : 300/360 v	20 Kva : 300/360 v			
	7.5, 10 Kva : 180 / 240 v	25, 30 Kva : 360 v	25 Kva & Above : 360 v			
DC Bus Volts Ripple		< 2 %				
Battery Type	VRLA Sealed Maintena	nce Free (SMF) / Lead Acid Tu	bular (Flooded type) / Nil - Cd			
Isolation	DC Circuit Breaker					
EFFICIENCY (Typical)						
Inverter Efficiency		> 92%				
Overall Efficiency	>85%					
PROTECTIONS						
Rectifier	I/P AC Over voltage and Under voltage					
	DC Over Voltage and DC Low					
	Battery Charging Over current					
	I/P Single Phasing					
	I/P Phase Reversal					
Inverter	O/P Over voltage / Under Voltage					
	O/P Overload					
	O/P Short circuit					
	Over Temperature					
Dealer:						

		Standard Rating				
	1 KVA - 10 KVA	7.5 KVA - 30 KVA	15 KVA - 150 KVA			
AUDIO ALARM		Rectifier Trip				
	Overload					
	Mains Fail					
	Battery Low with Pre-alarm					
	System Trip					
METERING	Multifunction LCD Display to read the following parameters with user friendly Mimic Diagram					
		I/P Voltage & Current	1PH Parameters upto 30 KVA			
	I/P Frequency					
	Battery Voltage					
	Battery Charging / discharging current					
	O/P Voltage					
	O/P Current					
	O/P Frequency					
PHYSICAL						
Dimensions	260(w)X550(d)X600(h) mm (1 - 5 lora)	325(w)X650(d)X650(h) mm (7.5 - 15 kva)	400(w)X900(d)X850(h)mm(15 kva)			
	260(w)X550(d)X600(h) mm (1 - 5 kxa)	260(w)X550(d)X600(h) mm (1 - 5 kva)	400(w)X500(d)X850(h)mm (20 - 40 kva)			
			800(w)X800(d)X1800(h) mm (50 - 100 kva) - A			
			A + 1000(w)X800(d)X1800(h) mm (120 - 150 kva)			
Enclosure	IP 21					
Cable Entry		Bottom / As per requirmen	nt			
Colour	Siemens gray					
ENVIRONMENT						
Operating Temperatue	0 to 45°					
Storage		-10 to 70°				
Humidity	ир	to 95% RH (non- condens	sing)			
Cooling		Forced Air Cooling				
Noise	< 55 db	< 60 db	< 65 db			
Alititude	< 3000 mtr. above mean sea level.					
	OPTION	AL FEATURES				
Enclosure		IP 42 / In	dustrial Grade			
Input Power Factor	Input Power Factor 0.99					
Operating Tempuratur	Operating Tempurature 50° c					
ECO mode with 98%	ECO mode with 98% Efficiency					
Auto Changeover to E	Auto Changeover to Bypass Supply (Static Bypass)					
Parallel Load Sharing	Parallel Load Sharing / N + 1 Configuration is available					
Remote Indicating Panel						
Computer Interface, S	Computer Interface, Self Diagnostics, SNPM					
Output Frequency						
Auto / Manual Battery Test/ Discharge Facility up to 400 Hz						
Auto Phase Reverse Correction						
19" Rack Mounting Type Models available						
IEC Conformance on	IEC Conformance on request					
CUSTOM BUILT / MIL	CUSTOM BUILT / MIL-GRADE SYSTEMS					

Standard Rating