

TECHNICAL COMPARISON OF **TRIZEN UPS** AND **DIESEL GENERATOR SET**

TECHNICAL D.G.SET PARAMETER		LIFT BACK UP SYSTEM	
TECHNOLOGY	Electro-Mechanical	Electronic	
CAPACITY REQUIRED	Almost 2.5 times of UPS	As per Actual Requirement	
NOISE LEVEL	Very High	No Noise	
SPACE REQUIRED	Large Floor Space	Compact	
AIR POLLUTION	Smoke, High Pollution	No	
VIBRATION	Very High	No	
INSTALLATION	Essentially Ground Floor	No Limitation	
FOUNDATION*	Essential	Not required	
MAINTENANCE	Frequent Tuning Reqd.	Only Battery Maintenance	
SPARES REPLACEMENTS	Duplication Possible	Only Genuine Spares	
LIFE	Less Rotary Parts Calls For Mechanical Wear & Tear Converter	More Life Span – Static No Moving Parts	
ACCESSORIES*	Canopy, Exhaust Arrangement AMF Panel, Anti Vibration Mounts, Silencer Required	No	
OPERATION	Manual & Tedious	Fully automatic	
USAGE	Has to be kept ON continuously During power cut Irrespective of whether the LIFT is being	Battery gets discharged only when LIFT IS WORKING in case	
NO-LOAD LOSSES	Very High	Almost zero	
OUTPUT	RPM Controlled, Poor Volt, Frequency Regulation	Regulated voltage, frequency, microcontroller used	
RELIABILITY / SAFETY	Very Low	Highly Reliable & Safe	
EMERGENCY RESCUE DEVICE	No	Available/optional	

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COMMERCIAL COMPARISON OF TRIZEN UPS AND DIESEL GENERATOR SET

COMMERCI	DIESEL	COST	LIFT UPS WITH	COST
AL	GENERATOR		BATTERY SET	
PARAMETE				
RS				
INITIAL	15 KVA Branded Gen Set	220,000/-	8 KVA UPS with	160000/-
INVESTMENT	AMF Panel		Tubular batteries	
			12V 150AH x 8 Nos. for	
			4 Hrs.Back up	
HIDDEN COST	Almost 2.5 times of UPS	15,000/-	N.A.	N.A.
	Diesel Consumption 2		Battery charging	
	liters / Hr.		expenses	
	Average Usage 3 Hrs. /		8 KVA x 3 Hrs. x 70%	
	Day		Duty Cycle	(122)
	Yearly $cost =$	142350/-	Yearly cost = $265 - 10 = 0.7$	61320/-
	2 x 3 x 365 x 65	1070501	8 x 3 x 365 x 10 x 0.7	1020(0)
	For 3 years	427050/-	For 3 years	183960/-
MAINTENANCE	AMC charges for 3 Years		AMC charges for 3	
COST	Consumables during 3 Yrs		Years (Including UPS	
	Engine Oil, Filter, Labour		spares and Consumables)	
	Single Engine Overhaul exp. Crank Grinding,		Battery Replacement	
	Piston Change	90000/-	Cost	120000/-
	riston Change	90000/-	(After deducting old	120000/-
			battery scrap)	
WARRANTY	In terms of No. of Hours	-	In terms of No. of Years	_
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DESIGN LIFE	12,000 - 15,000 Hrs. Only.	-	UPS : 12-15 Years min.	-
	, _,		Battery : 4-5 Years min.	
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TOTAL		752050/-		463960/-

TOTAL SAVINGS-288090/-

ASSUMPTIONS-Average Power Cut of Daily 3 Hrs Diesel Rate Rs.65/- per liter M.S.E.B. Rs.10/- per KWH Tubular Batteries with 4 year warranty Lift travel time during power cut 70%

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