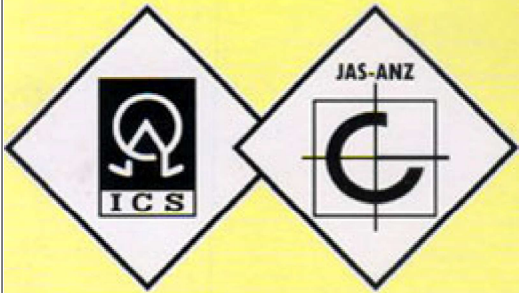
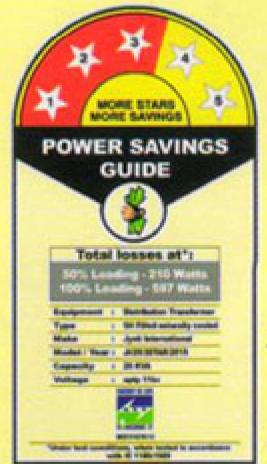




Manufacturers of :
DISTRIBUTION TRANSFORMERS SERVO VOLTAGE STABILIZERS
SOLAR POWER PACK ELECTRICAL CONTROL PANELS



a mark of excellence



BEE CERTIFIED

JYOTI INTERNATIONAL

(Electrical Division)



SUPERIOR FEATURE OF CORE (CRGO)

The core is constructed from low loss, cold rolled, grain oriented, annealed laminations of electrical sheet steel conforming to the latest international standards. Special frame is built in-house for clamping the core to reduce the magnetic noise as well as making the whole structure rigid and robust.

WINDINGS

Coils are wound with electrolytic high conductivity paper covered or synthetic enameled copper conductors. Cooling ducts are provided to keep the hot spot temperature as low as possible. Coils are dried in electric ovens. Rigid connection support and coil clamping is provided to ensure high short circuit strength.

INSULATION

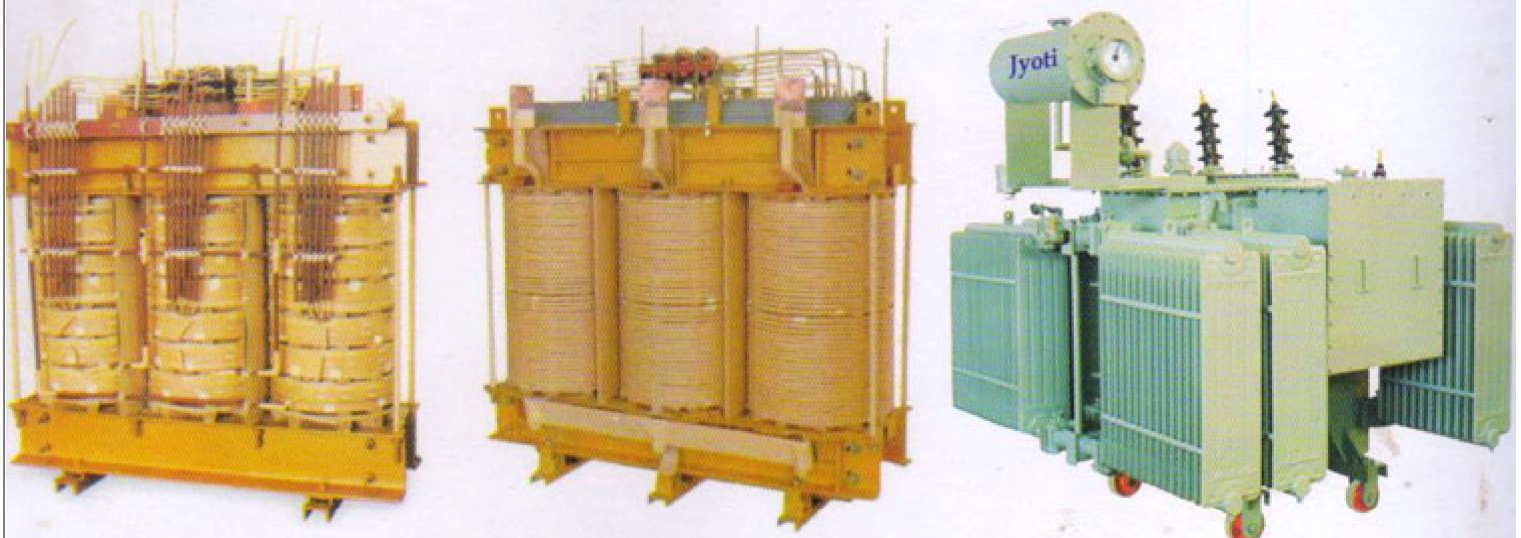
Precompressed board PARMALI board and JAPANESE insulation paper of best quality is used.

TAPPING

A. OFF CIRCUIT TAP CHANGING SWITCH Tapping from $\pm 5\%$ in steps of 2.5% for HV variation or as per customer's requirement.
B. ON LOAD TAP CHANGER Tapping range as per specific requirements can be offered. OLTC for remote / auto / parallel operation can also be offered.

OIL

Oil is tested for resistivity, dielectric and acidic characteristic confirming to IEC-296 / IS-335. Before topping up, oil is filtered throughly by dehydration plant.



TANKS

The tanks are made of M.S. Steel plates / sheets with adequate bracing & stiffeners. Tanks are pressure tested to withstand any type of inside or outside pressure. All the external surface are given a primary coat of zinc chromate, red oxide and two finishing coats of grey paint are as. The inner surface are given a coat of heat and oil resting paint.

PAINTING

all the external surface are given a primary coats of paint. Paints and enamel varnish used have been confirmed from IS : 104 & 2932 standards

TERMINAL ARRANGEMENT & BUSHING

Following arrangements are provided : (a) H.V. - Bare or cable box bushing (b) L.V. - Bare or cable box bushings, disconnecting chambers can also be provided on both HV & LV cable boxes. Bushing have been confirmed from IS : 3347, 2099, HV / LV bushing terminals of brass / copper have been confirmed from IS : 3347 Section - II metal part.

GASKETS & JOINTS

All gaskets used for making oil tight joints are cork as with base banded by oil resisting synthetic material or rubber. Neoprene rubber is used for oil tight joints for HV & LV terminals. The gaskets standards have been conformed from IS : 4253, Part - II - 1980 (Reaffirmed 1999) NC 777, RC 70C.

QUALITY CONTROL & ROUTINE TESTS

ELSTEEL Techno Modular Switchboards (TTA)

1. Enclosures are constructed as fully type tested assemblies (TTA), confirming to IEC 61439-1/2
2. Modular structure, Draw out / Semi Draw out construction
3. Type tested for special tests like Seismic Test as per IEC 68-3-3, Vibration test as per IEC 68-2-6 & IEC 68-2-36, AC Containment as per IEC 61641, etc.
4. Up to form 4b construction
5. ABS Type approval certificate for shipboard and associated marine & offshore installation
6. UL mark techno module switchboards
7. Ingress protection level of the enclosure provided up to IP 54/55
8. All load bearing structures of the modular enclosures made of electro galvanized steel and powder coated ensuring durability and resistance to corrosion

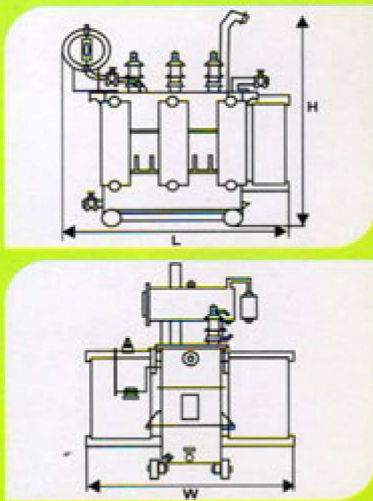


Details of the Solar Power Pack

S. No.	Solar Inverter / PCU		Solar Panel Capacity		12V Solar Batteries		Load	Backup (Hrs.)	Load
	Rating (VA)	Rating (Watt)	Solar Panel Rating	No. of Panel	AH Capacity	No. of Batteries			
1.	850	0.65	100 wp	5	150	1.	350 W	3	CFL, Fans, TV
2.	1500	1200	250 wp	4	150	2.	700 W	4	Cooler, Washing Machi
3.	2000	1600	250 wp	5	150	3.	850 W	4-6	Fridge
4.	2500	2000	100 wp	12	150	4.	850 W	4-6	Submersible
5.	3000	2400	250 wp	8	150	5.	1300 W	4-6	Inverter AC upto 1 tr
6.	5000	4000	250 wp	12	150	6.	1950 W	4-6	Ac upto 1.5 ton

BASIC TECHNICAL DATA / SELECTION TABLE

Rate Power In KVA	Impedance	STANDARD HV / LV	WINDING Material	Total Kg.	No. Load Losses	Full Load Losses	L x W x H
25	4.50	11000/433	Copper	230	85	685	37x30x48
63	4.50	11000/433	Copper	390	160	1285	39x34x50
100	4.50	11000/433	Copper	520	225	1850	49x35x52
160	4.75	11000/433	Copper	825	300	2900	52x35x56
200	4.75	11000/433	Copper	910	415	3150	52x40x70
250	4.75	11000/433	Copper	1100	500	3600	53x42x70
315	4.75	11000/433	Copper	1250	550	4000	67x44x75
400	4.75	11000/433	Copper	1400	650	5000	69x45x80
500	4.75	11000/433	Copper	1750	800	5800	74x56x80
630	4.75	11000/433	Copper	2000	900	7200	76x60x85
800	5.00	11000/433	Copper	2400	1200	8200	78x75x85
1000	5.00	11000/433	Copper	2800	1300	11500	80x85x90
1250	5.00	11000/433	Copper	3500	1650	13000	82x87x90
1600	6.25	11000/433	Copper	4500	2000	16000	86x86x90
2000	6.25	11000/433	Copper	5400	2400	21000	90x100x90
2500	6.25	33000/11000	Copper	6400	2800	23000	120x100x98
3150	6.25	33000/11000	Copper	7800	4200	28000	130x100x100
5000	7.15	33000/11000	Copper	10200	6200	32000	140x120x120



EPOXY RESIN CAST VOLTAGE TRANSFORMERS



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JYOTI INTERNATIONAL
(Electrical Division)

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