ACE Electromagnetics Pvt. Ltd.

Power Conditioning way ahead

Power Conditioners

ACE Active Regenerative Systems

Brief Description:

Regenerative system is a system which is a Grid locked, and can be used in various applications where active load bank is not at all required.

To test any equipment like Alternators, Motors, Power Transformers, Battery Chargers, DG Sets, Rectifier units etc. we require to load them at full power which is wasted through either resistor bank, salt water banks etc.

ACE Active regenerative system makes your own 3PH grid as load and regenerates the power for your own use and only takes the efficiency loss power from the source or service provider.

Features:

IGBT Based system dynamically regenerates power back for active use.

Takes only the system active loss power from the source. Hence saves active test load power.

Current Harmonics THDi < 10%

Technical Specifications:

Technology	IGBT Based
Input Supply	3PH – Balanced – 415V AC + 10% -20%
Frequency	50Hz ± 3Hz
Input to the system	Can be either AC or DC
Output	3PH – Balanced – 415V AC + 10% -20%
Maximum Wattage	140 kW – Can be increased *
Maximum Charging Current	Upto 1000A - Can be increased *
De-rated Compensation Current	15 %
Maximum Heat Loss	Max 20 watts/Ampere
Switching response time	<5 mSec
Cooling	Depending on Ampere Rating
Display	Digital Meters
Storage Temperature	$+10^0$C to $+65^0$C
Operating Temperature	$+10^0$C to $+50^0$C
Protection Index	IP20

* = Depending on the availability of Power rated semiconductors devices.

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Application Area:

1. Can be used as a Battery Dis-chargers.
2. Can be used to make 3 Phase Micro Grids.
3. Can be used to test 3 Phase Alternators at Full Power.
4. Can be used to test 3 Phase Inverters at Full Power.
5. Can be used to test AC Motors at Full Power.
6. Can be used to test 3 Phase DG set efficiency and load the same at full load.
7. Can be used to test 3 Phase rectifier units at full load.

Note:

ACE Active Regenerative Systems are manufactured as per customer specification.

ACE Active Regenerative Systems can be directly connected to the mains along with other similar units as per requirement.