

# CONNECTOR

## AKIRA FAMILY LETTER

### Dear family members,

Even a newborn baby satisfies its hunger through the revolution of crying, says Netaji. That same baby recognizes its mother by the scent it breathes in. Similarly, we warmly welcome our readers to breathe in and experience this month's newsletter. Just as a baby connects deeply through instinct and familiarity, we hope this newsletter resonates with you, bringing fresh insights and inspiration.

### Our Purpose

The purpose of being in the business is to deliver customer value that exceeds customers' present and future expectations. Our presence in our organization is to create a healthy customer experience. Thus, creating a healthy customer experience, when they are with us or far from us, is the purpose of our being in this business.



### What does create a healthy customer experience mean to all of us at "Akira"?

- o It is to understand customers as we would like to be understood.
- o It is always to be a couple of steps ahead of our customers.
- o It is unconditionally expressing our Gratitude.
- o It is turning customers into our strongest ambassadors.
- o It is always keeping our promises while helping to build a feeling of trust and interdependency.
- o It is always to communicate facts with respect.
- o It is to make our customers "Right" through proper customer education.
- o It is always to design, create and deliver what customers value the most.
- o It is to remain fact-oriented and practical.

### Special Days in May

Date	Special Day/Event Name
1-May	International Labor Day / May Day
2-May	World Asthma Day (First Tuesday of May)
3-May	World Press Freedom Day
4-May	World Laughter Day (First Sunday of May)
7-May	World Athletics Day
8-May	World Red Cross Day
9-May	Rabindranath Tagore Jayanti
11-May	National Technology Day
12-May	International Nurses Day / Mother's Day (2-Sunday of May)
15-May	International Day of Families
17-May	World Telecommunication Day / World Hypertension Day
17-May	National Endangered Species Day (Third Friday of May)
18-May	Armed Forces Day (Third Saturday of May)
18-May	World AIDS Vaccine Day / International Museum Day
21-May	National Anti-Terrorism Day
22-May	International Day for Biological Diversity
26-May	National Memorial Day (Last Monday of May)



## Celebrating the Journey



Kalaiselvi J



R Suguna



Karthikeyan M

Shanmugapriya  
RajasekarGayathri  
Rajkumar

## Welcome Our Commandos



Kala



Sapana Kumari



Kala Sathishbalu B



Sathish Chinnasamy



Rokini Raju



Pushpa P



Kalaiselvi M



Nagarathinam



Vanitha mani



K Jayaprakash

## Achievers

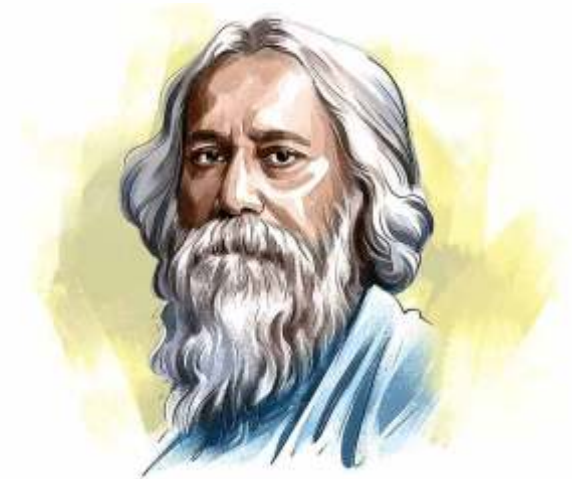
## Rabindranath Tagore (1861 – 1941)

Rabindranath Tagore was a world-renowned Indian poet, writer, composer, artist. He was awarded the Nobel Prize in Literature in 1913 for his collection of poems. He was the first Asian to receive the Nobel Prize. Rabindranath Tagore Jayanti, his birthday, is celebrated on May 9 every year.

## Contributions: Education:

He founded *Shanti Niketan*, a unique educational center, which later developed into a *University*.

**Music :** He composed the Indian national anthem "Jana Gana Mana" and also the national anthem "Amar Shonar Bangla".



## Healthy Tip

Pretty cool for a leaf we often just toss aside on the plate!

Curry leaves contain powerful antioxidants like **linalool**, **carbazole alkaloids**, and **mahanimbine**, which have been shown in some studies to **protect the brain from oxidative stress and neurodegeneration**. Preliminary research in animals suggests that curry leaf extracts might **improve memory and cognitive function**, making them potentially beneficial in preventing age-related brain disorders like **Alzheimer's disease**.

## Technical Tips

### Static Stabilizer

The static board is an SMPS type voltage stabilizer for mains voltage (AC input and AC output). This is a new switching topology where PWM is made directly in AC-to-AC switching, without any harmonic distortion. In this topology there is no need to convert the AC input to DC and again convert it back to regulated AC output. This simplifies the design, reduces the component count and improves the efficiency and reliability. The power stage is an IGBT chopper control. The chopping frequency is around 20 KHz which ensures absolutely silent operation and pure sine wave output (no waveform distortion). The control section is based on dsPIC controller which ensures quick correction of output which is not possible in conventional relay type stabilizer or servo-controlled stabilizers. The circuit is having LED for indication for frequency fault, output high voltage, High temperature trip and IGBT current protection trip. This is especially useful in places where we need very fast correction speed, constant output voltage, overload current limiting and short circuit protection, soft start, high voltage cut-off and low voltage cut-off, automatic bypass, no wear and tear, long life and maintenance free which is impossible with other conventional relay type or servo control stabilizers.



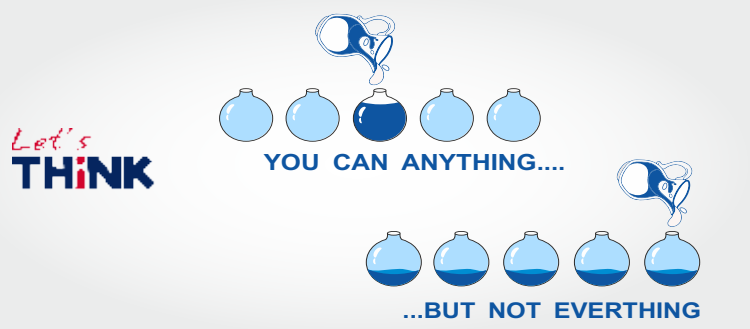
### Comparison of servo and static stabilizer:

Features	Servo Stabilizer	Static Stabilizer
Working Principle	Operated by motor-driven mechanism (servo motor)	Electronic switching (based on IGBT / SMPS)
Correction Speed	Slow	Very fast
Response Time	Noticeable delay	Instant response
Waveform Distortion	Slight waveform distortion possible	Pure sine wave output (no distortion)
Noise Level	May produce noise during operation	Silent operation
Maintenance	Requires maintenance due to moving parts	Maintenance-free
Life Span	Wear and tear possible due to mechanical components	Long life
Startup	Normal startup	Soft start feature
Protection Features	Limited protections	Advanced protections (overload, overheat, short circuit, etc.)
Application Areas	General applications	High-precision, sensitive equipment
Cost	Usually less expensive	Slightly more expensive

### Features

- Direct AC-AC conversion without rectifying to DC improves the efficiency, reliability and reduces the components.
- Rapid cycle by cycle correction of output. It can correct sudden fluctuation in the line voltage. For example, using a welding machine in the same line will cause sudden fluctuation in the line voltage which cannot be corrected with conventional relay type and servo-controlled voltage stabilizers, where Static Voltage Stabilizer can correct it.
- Output regulation of +/- 1% which is impossible in conventional stabilizer.
- No distortion in output waveform.
- Automatic bypass in case of failure.
- LED annunciation for IGBT static board related faults.
- Small transformer size (1/5th of the capacity)
- Compact size and light weight
- 20KHz PWM control
- IGBT power stage. Highly reliable.
- Fully solid state. No moving part, hence more life and no maintenance.
- Silent operation.

### Customer Feed back



"Thank you so much for sharing such a valuable messages and technical tips with us. It's really helps us improve technical knowledge. We appreciate you for such initiative."

by Umesh Kumar



Thank you sincerely for sharing your valuable experience with us. Your encouraging words motivate us to continuously strive for excellence and inspire us to deliver even more meaningful and refined experiences to our customers.