



"Technologies for Green Energy"

# **Product Catalog**

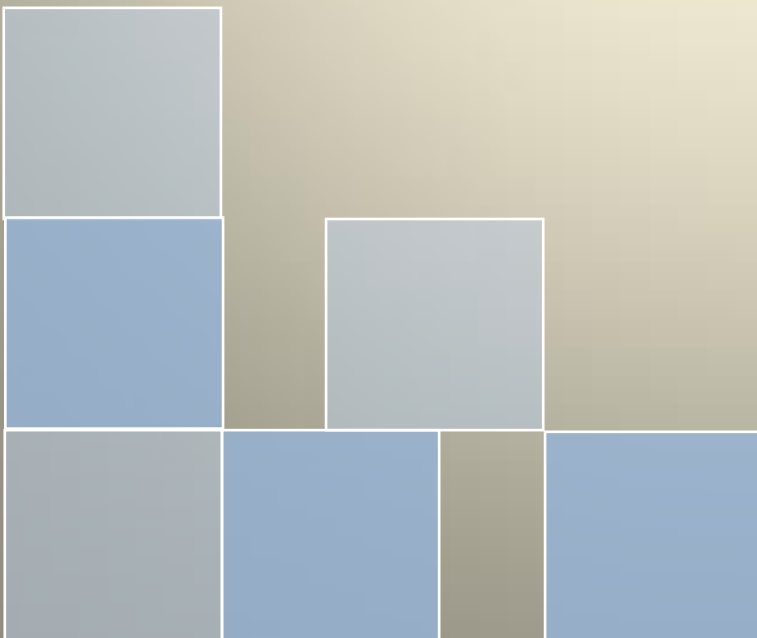
## **Laminated Transformers**

Edition: A-2021

[www.lithentic.com](http://www.lithentic.com)

+91-80-4120-4236

support@lithentic.com



## 1 About Lithentic Technologies:

We are manufacturer and service provider of magnetic components like transformers and inductors. Our strong focus is to manufacture & supply energy efficient modern products in diversified application areas. Following the current trend of miniaturization in magnetic devices with ever increasing efficiency demand, our design team is always committed to produce international standard products within local reach and affordability.

As a team, we are a blend of immense experience and agility in technical and commercial field. As a young company, we are flexible, innovative and free of overhead. Our customer first policy is targeted to resolve all your challenges firsthand and always be with you as trusted friend, forever...

We value the human centric approach in all our employee and customer relations.

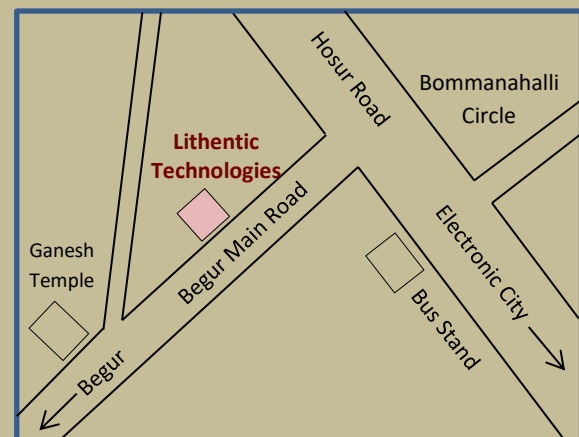
## Office Address:

Lithentic Technologies (OPC) Private Limited  
No.73/3, 1st Floor, Begur Main Road,  
Bommanahalli, (Near Bommanahalli Circle)  
Bengaluru, Karnataka, India. Pin: 560068

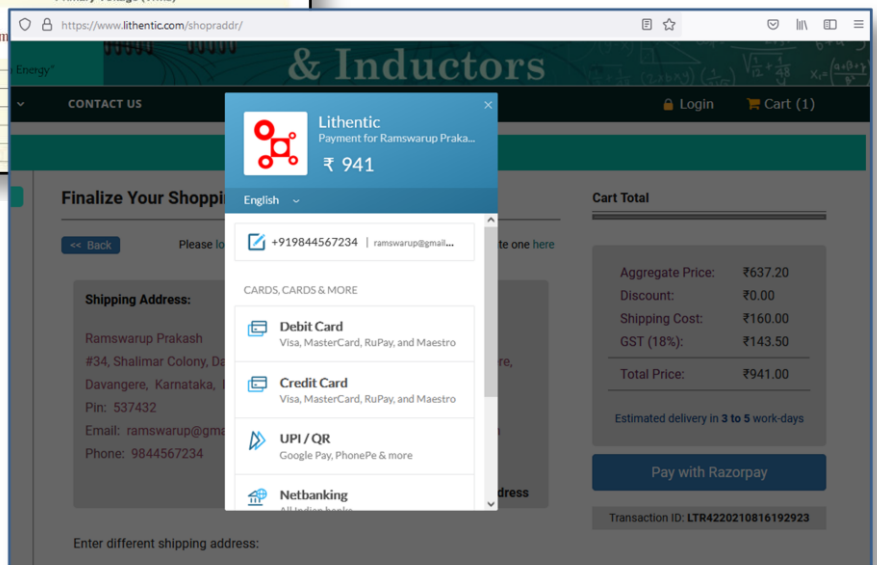
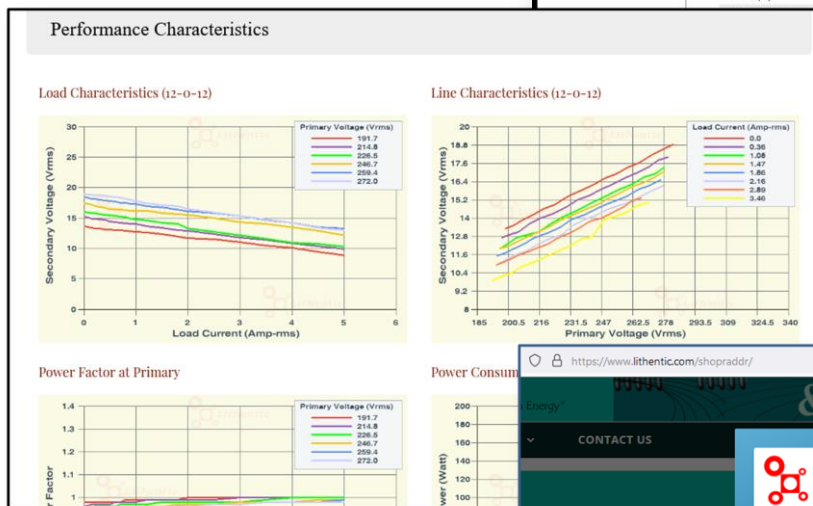
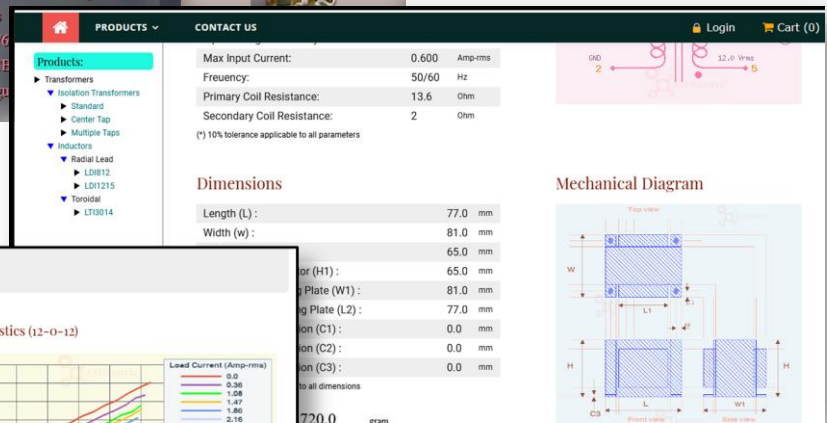
**Phone:** +91-80-4120-4236

**Email:** [support@lithentic.com](mailto:support@lithentic.com)

**Website:** [www.lithentic.com](http://www.lithentic.com)



Get product datasheet and order online. Chat with us!! Our technical and sales team is ready to answer your questions. Visit our website [www.lithentic.com](http://www.lithentic.com).

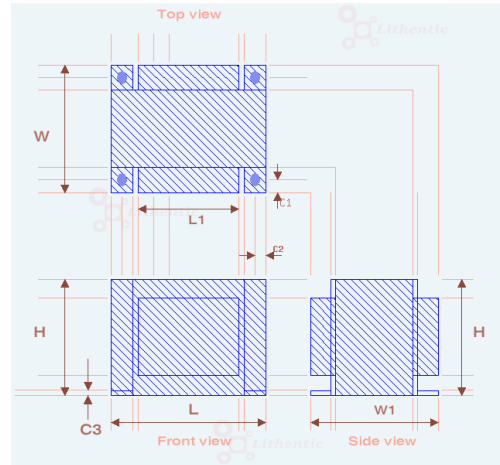
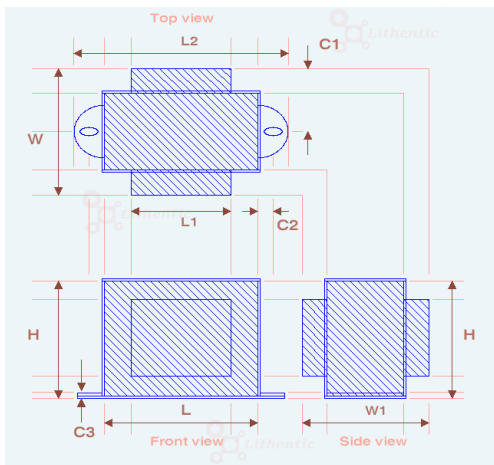


## 2 Single Phase Transformers

Off The Shelf Transformers can be shipped immediately. Order online and we shall ship them within 2 days through our courier partner.

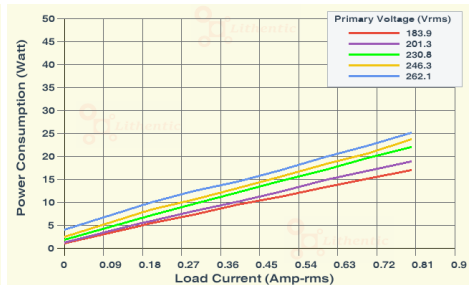
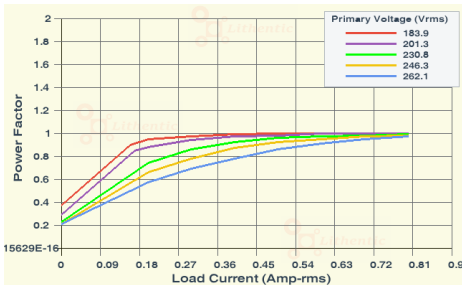
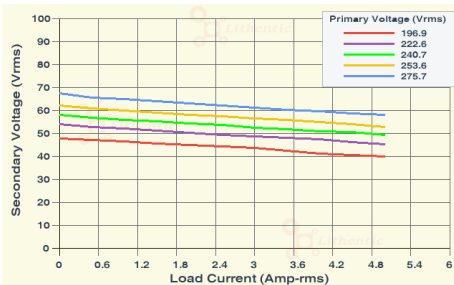


Install it comfortably; use dimensions and mechanical diagrams provided in datasheets.



**Choose suitable transformers for your design!! Use test data and plots provided in datasheets.**

Visit our website; refer datasheet for Temperature Rise, Line and Load Characteristics, Power consumption, Power Factor plots and other electrical parameters.



## 2.1 Single output isolation transformers

Series: **TLS100**

Core material: Laminated Steel

Mounting: Chassis mount

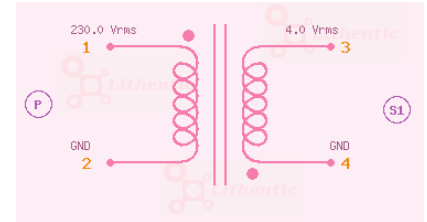
Connector: Option selectable

Input Voltage: 230 Vrms

















Temperature Rise: 40 DegC

Applications: Boost or buck converter in renewable energy circuits, battery charger, UPS, audio & sound processing, LED lighting, benchtop power supply, battery simulator etc.

Schematic:







### 2.1.1 Copper Winding

Product ID	Product	Description * <sup>1</sup>	Power Rating (VA) * <sup>1</sup>	Primary Ohm * <sup>1</sup>	Dimensions (mm) L x W x H * <sup>2</sup>	Weight (gm) * <sup>2</sup>
<a href="#">TLS100EW4C2</a> ↗		4 Volt 2 Amp online Isolation transformer	8.0	450	49 x 41 x 42	350
<a href="#">TLS100EW4C5</a> ↗		4 Volt 5 Amp online Isolation transformer	20.0	62.2	49 x 41 x 42	350
<a href="#">TLS100EW5CP5</a> ↗		5 Volt 500 mA online Isolation transformer	2.5	475	39 x 35 x 33	175
<a href="#">TLS100EW5C1</a> ↗		5 Volt 1 Amp online Isolation transformer	5.0	468	39 x 42 x 33	181
<a href="#">TLS100EW5C1P5</a> ↗		5 Volt 1.5 Amp online Isolation transformer	7.5	478	48 x 35 x 42	223
<a href="#">TLS100EW6C5</a> ↗		6 Volt 5 Amp online Isolation transformer	30.0	43.2	77 x 66 x 65	919
<a href="#">TLS100EW7C1</a> ↗		7 Volt 1 Amp online Isolation transformer	7.0	615	48 x 35 x 42	223
<a href="#">TLS100EW9C1P2</a> ↗		9 Volt 1.2 Amp online Isolation transformer	10.8	238	51 x 44 x 42	385
<a href="#">TLS100EW9C5</a> ↗		9 Volt 5 Amp online Isolation transformer	45.0	21.4	77 x 66 x 65	1,116
<a href="#">TLS100EW12CP5</a> ↗		12 Volt 500 mA online Isolation transformer	6.0	478	38 x 51 x 35	181
<a href="#">TLS100EW12C5</a> ↗		12 Volt 5 Amp online Isolation transformer	60.0	24.6	77 x 67 x 65	1,314
<a href="#">TLS100EW14CP5</a> ↗		14 Volt 500 mA online Isolation transformer	7.0	508	48 x 38 x 42	220
<a href="#">TLS100EW18CP5</a> ↗		18 Volt 500 mA online Isolation transformer	9.0	508	48 x 38 x 42	270
<a href="#">TLS100EW24C5</a> ↗		24 Volt 5 Amp online Isolation transformer	120.0	20.6	77 x 81 x 65	1,688
<a href="#">TLS100EW48C2P5</a> ↗		48 Volt 2.5 Amp online Isolation transformer	120.0	12.4	77 x 81 x 65	1,688
<a href="#">TLS100EW48C5</a> ↗		48 Volt 5 Amp online Isolation transformer	240.0	8.8	96 x 91 x 87	2,642

[\*<sup>1</sup>]: 10% tolerance applicable for electrical parameters

[\*<sup>2</sup>]: 20% tolerance applicable for physical parameters

## 2.1.2 Aluminium Winding

Product ID	Product	Description * <sup>1</sup>	Power Rating (VA) * <sup>1</sup>	Primary Resistance (Ohm) * <sup>1</sup>	Dimensions (mm) L x W x H * <sup>2</sup>	Weight (gm) * <sup>2</sup>
<a href="#"><u>TLS100EW4A2</u></a> ↗		4 Volt 2 Amp Online Isolation Transformer	8.0	113.2	49 x 41 x 42	488
<a href="#"><u>TLS100EW5A1</u></a> ↗		5 Volt 1 Amp Online Isolation Transformer	5.0	113.2	61 x 52 x 52	493
<a href="#"><u>TLS100EW5A1P5</u></a> ↗		5 Volt 1.5 Amp Online Isolation Transformer	7.5	113.6	61 x 52 x 52	492
<a href="#"><u>TLS100EW7A1</u></a> ↗		7 Volt 1 Amp Online Isolation Transformer	7.0	112.6	61 x 52 x 52	494
<a href="#"><u>TLS100EW7A3P5</u></a> ↗		7 Volt 3.5 Amp Online Isolation Transformer	24.5	39.5	77 x 57 x 65	858
<a href="#"><u>TLS100EW9AP6</u></a> ↗		9 Volt 600 mA Online Isolation Transformer	5.4	510.0	72 x 35 x 42	215
<a href="#"><u>TLS100EW9A1P2</u></a> ↗		9 Volt 1.2 Amp Online Isolation Transformer	10.8	111.8	61 x 52 x 52	385
<a href="#"><u>TLS100EW9A5</u></a> ↗		9 Volt 5 Amp Online Isolation Transformer	45.0	27.6	51 x 44 x 42	992
<a href="#"><u>TLS100EW12AP75</u></a> ↗		12 Volt 750 mA Online Isolation Transformer	9.0	392	49 x 41 x 42	343
<a href="#"><u>TLS100EW12A5</u></a> ↗		12 Volt 5 Amp Online Isolation Transformer	60.0	30.2	77 x 75 x 65	1387
<a href="#"><u>TLS100EW14AP75</u></a> ↗		14 Volt 750 mA Online Isolation Transformer	10.5	392	49 x 41 x 42	346
<a href="#"><u>TLS100EW18AP75</u></a> ↗		18 Volt 750 mA Online Isolation Transformer	13.5	393	49 x 41 x 42	346

[\*<sup>1</sup>]: 10% tolerance applicable for electrical parameters

[\*<sup>2</sup>]: 20% tolerance applicable for physical parameters

## 2.2 Center Tap Isolation transformers

Schematic:

Series: **TLS101**

Core material: Laminated Steel

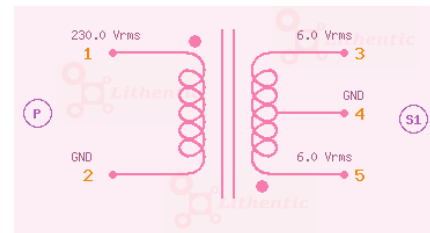
Mounting: Chassis mount

Connector: Option selectable












Input Voltage: 230 Vrms

Temperature Rise: 40 DegC

Applications: Boost or buck converter in renewable energy circuits, battery charger, UPS, audio & sound processing, LED lighting, benchtop power supply, battery simulator etc.



### 2.2.1 Copper Winding:

Product ID	Product	Description * <sup>1</sup>	Power Rating (VA) * <sup>1</sup>	Primary Resistance (ohm) * <sup>1</sup>	Dimensions (mm) L x W x H * <sup>2</sup>	Weight (gm) * <sup>2</sup>
<a href="#">TLS101EW6CP5</a> ↗		6-0-6 Volt 500 mA isolation transformer	6.0	571	49 x 37 x 42	290
<a href="#">TLS101EW6C1P5</a> ↗		6-0-6 Volt 1.5 Amp isolation transformer	18.0	142	61 x 52 x 52	520
<a href="#">TLS101EW6C4P5</a> ↗		6-0-6 Volt 4.5 Amp isolation transformer	54.0	20.5	77 x 66 x 65	1,150
<a href="#">TLS101EW6C5</a> ↗		6-0-6 Volt 5 Amp isolation transformer	60.0	27.3	77 x 67 x 65	1,370
<a href="#">TLS101EW9CP5</a> ↗		9-0-9 Volt 500 mA isolation transformer	9.0	434	49 x 37 x 42	290
<a href="#">TLS101EW9C1</a> ↗		9-0-9 Volt 1 Amp isolation transformer	18.0	141.7	61 x 52 x 52	510
<a href="#">TLS101EW9C1P3</a> ↗		9-0-9 Volt 1.3 Amp isolation transformer	23.4	155.3	61 x 52 x 52	530
<a href="#">TLS101EW9C5</a> ↗		9-0-9 Volt 5 Amp isolation transformer	90.0	22.8	77 x 81 x 65	1,682
<a href="#">TLS101EW12C2P1</a> ↗		12-0-12 Volt 2.1 Amp isolation transformer	50.4	26	77 x 67 x 65	1,170
<a href="#">TLS101EW12C2P7</a> ↗		12-0-12 Volt 2.7 Amp isolation transformer	64.8	25.1	77 x 67 x 65	1,375
<a href="#">TLS101EW12C3P5</a> ↗		12-0-12 Volt 3.5 Amp isolation transformer	84.0	13.6	77 x 81 x 65	1,720

[\*<sup>1</sup>]: 10% tolerance applicable for electrical parameters

[\*<sup>2</sup>]: 20% tolerance applicable for physical parameters

### 2.2.2 Aluminium Winding

Product ID	Product	Description * <sup>1</sup>	Power Rating (VA) * <sup>1</sup>	Primary Resistance (ohm) * <sup>1</sup>	Dimensions (mm) L x W x H * <sup>2</sup>	Weight (gm) * <sup>2</sup>
<a href="#">TLS101EW9A2P5</a> ↗		9-0-9 Volt 2.5 Amp isolation transformer	45.0	14.3	77 x 81 x 65	1,600
<a href="#">TLS101EW9A4</a> ↗		9-0-9 Volt 4 Amp isolation transformer	72.0	16.3	77 x 81 x 65	1,597
<a href="#">TLS101EW9A5</a> ↗		9-0-9 Volt 5 Amp isolation transformer	90.0	9.3	96 x 91 x 87	2,450
<a href="#">TLS101EW12A2P5</a> ↗		12-0-12 Volt 2.5 Amp isolation transformer	60.0	14.3	77 x 81 x 65	1,600
<a href="#">TLS101EW12A4</a> ↗		12-0-12 Volt 4 Amp isolation transformer	96.0	9.3	95 x 91 x 87	2,387
<a href="#">TLS101EW12A5</a> ↗		12-0-12 Volt 5 Amp isolation transformer	120.0	6.8	95 x 117 x 87	3,611

[\*<sup>1</sup>]: 10% tolerance applicable for electrical parameters

[\*<sup>2</sup>]: 20% tolerance applicable for physical parameters

## 2.3 Multiple-Tap Isolation transformers

Series: **TLS110**

Core material: Laminated Steel

Mounting: Chassis mount

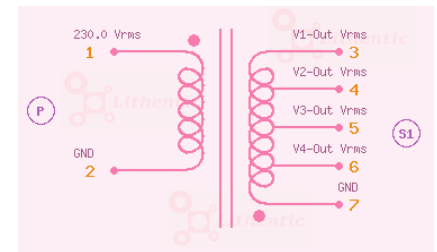
Connector: Option selectable

Input Voltage: 230 Vrms

Temperature Rise: 40 DegC

Applications: Boost or buck converter in renewable energy circuits, battery charger, UPS, audio & sound processing, LED lighting, benchtop power supply, battery simulator etc.

Schematic:





### 2.3.1 Copper Winding:

Product ID	Product	Description * <sup>1</sup>	Power Rating (VA) * <sup>1</sup>	Primary Resistance (ohm) * <sup>1</sup>	Dimensions (mm) L x W x H * <sup>2</sup>	Weight (gm) * <sup>2</sup>
<a href="#">TLS110EW30C4</a> ↗		30, 22, 15, 7 Volts 4 Amp isolation transformer	120.0	23.2	95 x 63 x 80	1,741
<a href="#">TLS110EW48C5</a> ↗		48, 24, 12, 9 Volts 5 Amp isolation transformer	240.0	8.8	95 x 84 x 80	2,696

[\*<sup>1</sup>]: 10% tolerance applicable for electrical parameters

[\*<sup>2</sup>]: 20% tolerance applicable for physical parameters

## 2.3.2 Aluminium Winding:

Product ID	Product	Description * <sup>1</sup>	Power Rating (VA) * <sup>1</sup>	Primary Resistance (ohm) * <sup>1</sup>	Dimensions (mm) L x W x H * <sup>2</sup>	Weight (gm) * <sup>2</sup>
<a href="#">TLS110EW30A5</a> ↗		30, 22, 15, 7 Volts 5 Amp isolation transformer	150.0	7.8	95 x 84 x 80	2,522
<a href="#">TLS110EW48A5</a> ↗		48, 24, 12, 9 Volts 5 Amp isolation transformer	240.0	6.8	95 x 107 x 80	3,718

[\*<sup>1</sup>]: 10% tolerance applicable for electrical parameters

[\*<sup>2</sup>]: 20% tolerance applicable for physical parameters

## 2.4 Dual Center Tap Isolation transformers

Series: **TLS111**

Core material: Laminated Steel

Mounting: Chassis mount

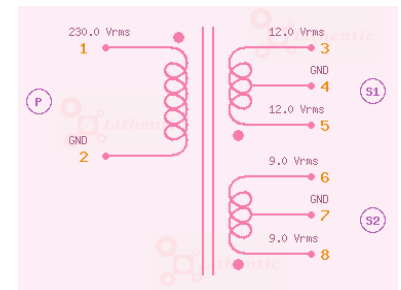
Connector: Option selectable

Input Voltage: 230 Vrms



Temperature Rise: 40 DegC

Applications: Boost or buck converter in renewable energy circuits, battery charger, UPS, audio & sound processing, LED lighting, benchtop power supply, battery simulator etc.

Schematic:






### 2.4.1 Copper Winding:

Product ID	Product	Description * <sup>1</sup>	Power Rating (VA) * <sup>1</sup>	Primary Resistance (ohm) * <sup>1</sup>	Dimensions (mm) L x W x H * <sup>2</sup>	Weight (gm) * <sup>2</sup>
<a href="#">TLS111EW12C5</a> ↗		12-0-12 and 9-0-9 Volt 5 Amp isolation transformer	210.0	8.8	95 x 91 x 87	2,647
<a href="#">TLS111EW24C2P5</a> ↗		24-0-24 and 12-0-12 Volt 2.5 Amp isolation transformer	338.0	8.6	95 x 91 x 87	2,600

[\*<sup>1</sup>]: 10% tolerance applicable for electrical parameters

[\*<sup>2</sup>]: 20% tolerance applicable for physical parameters

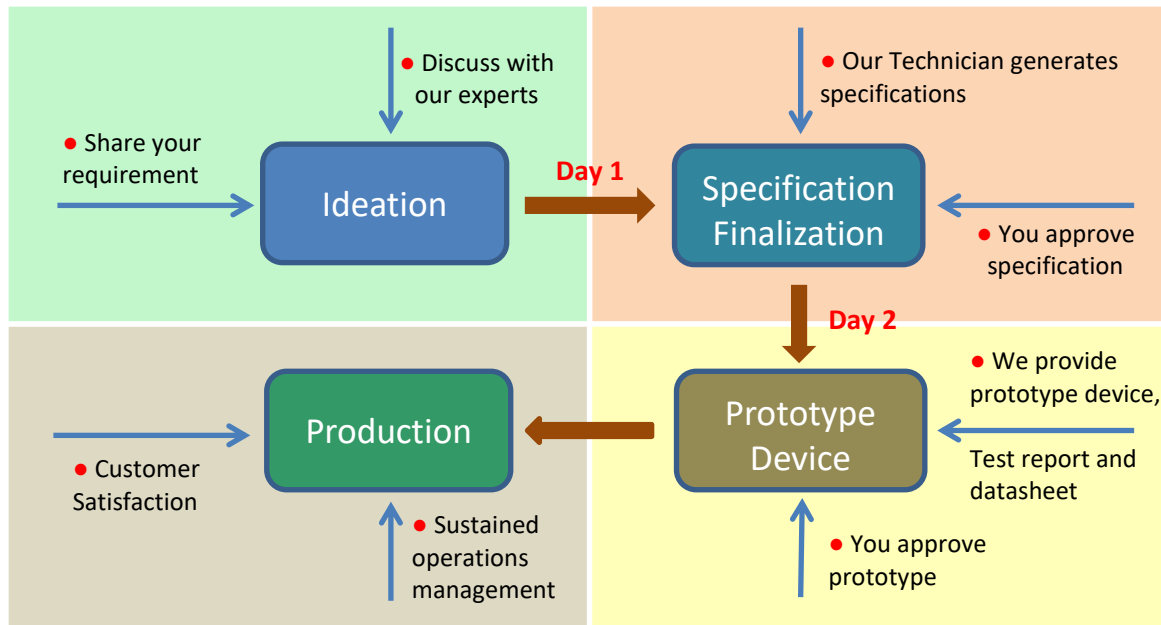
### 2.4.2 Aluminium Winding:

Product ID	Product	Description * <sup>1</sup>	Power Rating (VA) * <sup>1</sup>	Primary Resistance (ohm) * <sup>1</sup>	Dimensions (mm) L x W x H * <sup>2</sup>	Weight (gm) * <sup>2</sup>
<a href="#">TLS111EW12A5</a> ↗		12-0-12 and 9-0-9 Volt 5 Amp isolation transformer	210.0	8.2	95 x 117 x 87	3,610
<a href="#">TLS111EW15A2P2</a> ↗		15-0-15 and 12-0-12 Volt 2.2 Amp isolation transformer	118.8	12.4	95 x 117 x 87	2,427
<a href="#">TLS111EW24A2</a> ↗		24-0-24 and 12-0-12 Volt 2 Amp isolation transformer	144.0	12.2	95 x 117 x 87	3,611

### 3 Custom Magnetics Design

We offer custom magnetics design services of low frequency laminated core as well as ferrite core high frequency Transformers and Inductors. Our team of experienced engineers and technicians are well equipped with sophisticated computer aided design techniques.

#### How it works



#### Our custom magnetics can be designed to a wide range of specifications, such as:

- ❖ **Power ratings** from 0.010VA to 5 kVA
- ❖ **Frequency ratings** from 20 Hz to 1 MHz
- ❖ **Insulation system ratings** of 80–220° C
- ❖ **Core materials** including CRGO, CRNGO laminated steel, Ferrite, Iron powder, Sendust etc.
- ❖ **Core shapes** such as EE, EI, EP, ER, Pot Core, toroidal to name few
- ❖ **Conductor materials** such as copper or aluminum magnetic wire, litz wire and copper or aluminum foil

#### Our design expertise for inductors includes:

- ❖ Low and high-frequency switch-mode inductors
- ❖ Magnetic core materials such as amorphous alloys, ferrites, iron powders, and laminations