INDUSTRIAL PRODUCTS

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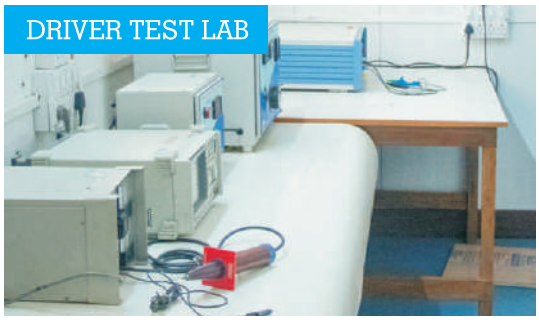
SMT LINE

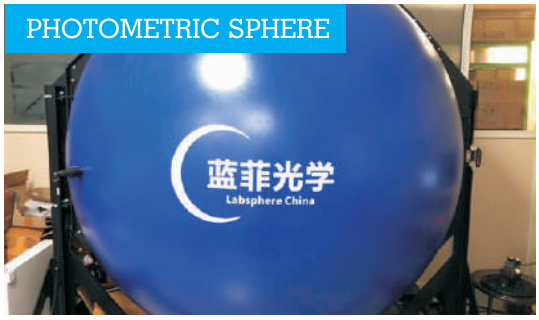
SMT LINE

DRIVER TEST LAB



LUMINAIRE PRODUCTION LINE

PHOTOMETRIC SPHERE



DESIGN & DEVELOPMENT

BUREAU VERITAS
Certification

INTELUX ELECTRONICS PRIVATE LIMITED

intelux

HEAD OFFICE: SHED NO.02/08, SURVEY NO.30/4, NEAR D'RAN/PARI COMPANY, DHAYARI, PUNE – 411 041, MAHARASHTRA, INDIA

This is a multi-site certificate; additional site details are listed in the appendix to this certificate.

Bureau Veritas (India) Pvt. Ltd. (Certification Business) certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the Management System Standards detailed below

Standard

ISO 9001:2015

Scope of certification

DESIGN, DEVELOPMENT, MANUFACTURE, SALES & MARKETING AND SERVICING OF:
1. ELECTRONIC BALLAST & LED DRIVER
2. POWER MANAGEMENT SYSTEM UPTO 150 KVA & AC/DC ENERGY METER UPTO 200A
3. LOW TENSION TRANSFORMER OIL COOLED TYPE UPTO 2000KVA & DRY TYPE UPTO 1200 KVA
4. LED LUMINAIRES SUCH AS: STREET LIGHT, FLOOD LIGHT, HIGH BAY LIGHT, BATTEN, TUBE LIGHT.
ELECTRONIC MANUFACTURING SERVICES FOR ASSEMBLY OF PRINTED CIRCUIT BOARDS (PCBs) RELATED TO VARIOUS ELECTRONICS AND ELECTRICAL PRODUCTS

Original cycle start date: 26 March 2008
Expiry date of previous cycle: 27 March 2020
Recertification Audit date: 25 February 2020
Recertification cycle start date: 27 March 2020

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 27 March 2023

Certificate No: IND.20.0114/QM/N Version: 1 Revision date: 27 March 2020

Certification Authority
Jagdheesh R. MANNAR
Head – CERTIFICATION, South Asia
Commodities, Industry & Facilities Division

QM 003

Dated: 24th October, 2020

F. No. TUIV-RD/3192/2020

To

M/s. Intelux Electronics Pvt. Ltd.
Unit 2, Electronic Co-Op Estate,
Pune-Satara Road,
Pune - 411 009
(Maharashtra)

Subject: RENEWAL OF RECOGNITION OF IN-HOUSE R&D UNIT(s)

Dear Sir,

This has reference to your application for renewal of recognition of your In-House R&D unit(s) beyond 31-03-2020 by the Department of Scientific and Industrial Research.

2. This is to inform you that it has been decided to accord renewal of recognition to the in-House R&D unit(s) of your firm at S.No. 30/4, Shed No. 02/08, Near Dran/Pari Co., Narhe – Dhayari Road, Dhayari, Pune (Maharashtra) upto 31.03.2023. Terms and conditions pertaining to this recognition are given overleaf.

3. Kindly acknowledge the receipt of this letter.

Yours faithfully,

(Dr. P. K. Dutta)
Scientist 'F'

CONTENTS

Current Transformers

Precision in Power Management: Explore our cutting-edge current transformers meticulously designed for accuracy and reliability. Our catalog showcases a range of compact and efficient transformers, ensuring precise measurement and protection in electrical systems. Trust in our commitment to delivering excellence in power control and monitoring. Discover our versatile current transformers ranging from 5 to 300 Amps, featuring VA ratings from 0.1 to 5 VA, available in class 0.5 and 1.Tailored to meet customer specifications, each design is crafted to deliver precision and adaptability in diverse electrical applications.

Product Highlights

Monitoring on electrical equipment's such as

- Power supply for Telecom,
- Power system
- Battery Supplied applications
- Uninterrupted power supplies(UPS)
- Switch mode power supplies(SMPS)
- Used in all AC appliances.

Features / Advantages

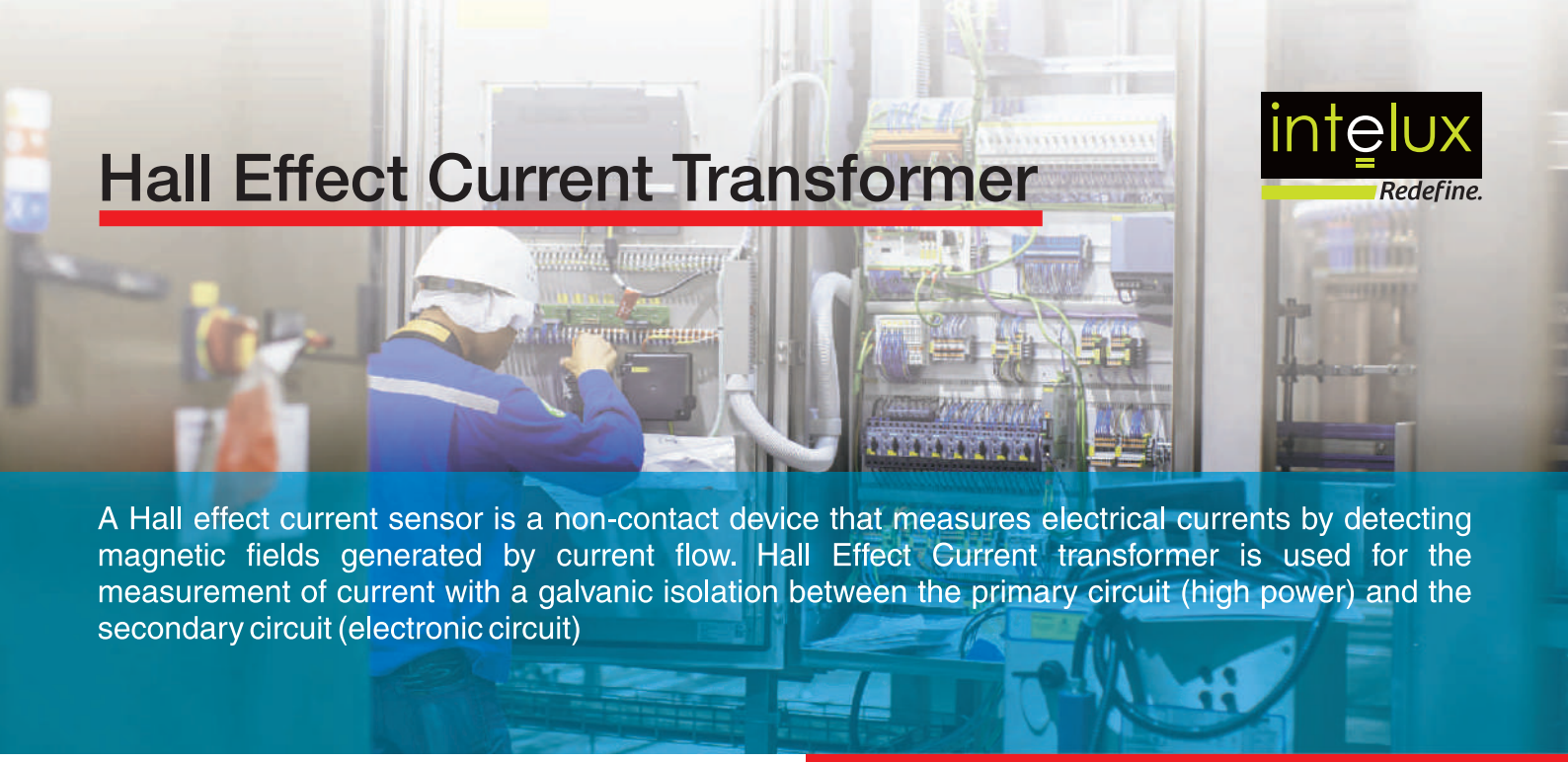
- Split Core
- Low Cost
- Large Overload capability
- Fast response
- Good Linearity
- High accuracy
- Bi-directional current measurement.

Appplications:
1) Battery Charging with Float-boost mode
2) Power supply for different PLC loads
3) Backup for loads in case of power failure

Technical Data Sheet

CT Ratio	Rating	AC/DC Application
200:0.1 A	0.1 VA	AC
100:0.1 A	0.1 VA	AC
60:0.1 A	0.1 VA	AC
100:1 A	1 VA	AC
50A:2V		AC/DC
100A:2V		AC/DC
100A:4.5V		AC/DC
200A:4.5V		AC/DC

Hall Effect Current Transformer



A Hall effect current sensor is a non-contact device that measures electrical currents by detecting magnetic fields generated by current flow. Hall Effect Current transformer is used for the measurement of current with a galvanic isolation between the primary circuit (high power) and the secondary circuit (electronic circuit)

Product Highlights

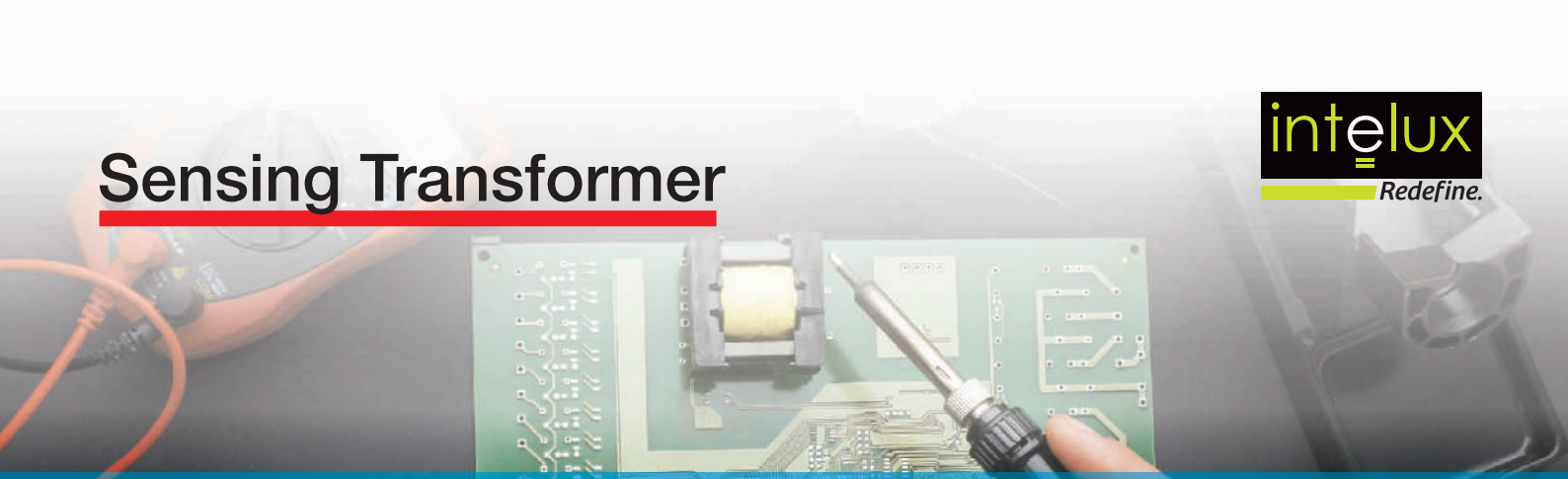
- Split Core
- Response time < 7.0 micro s
- Linearity <0.1%
- Accuracy + 1.0%
- Bi-directional AC, DC Current measurement

Appplications:
1) Battery chargers 2) Power Supplies 3) UPS 4) Inverter
5) Electrical Welding Machines 6) Metering Application
7) Battery Monitoring System

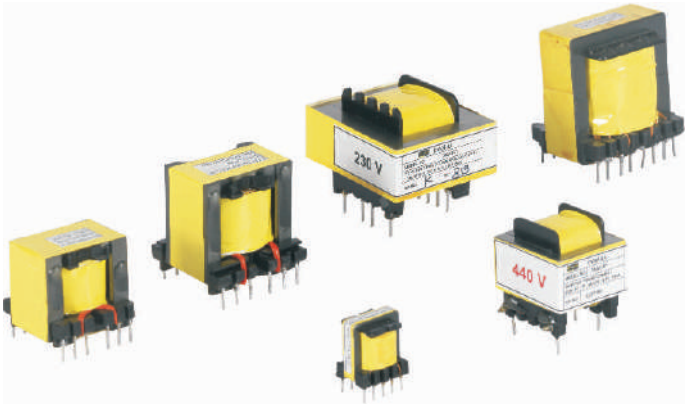
Technical Data Sheet

Rating	Type	I/P SUPPLY (V)	O/P SUPPLY (V)	LINEARITY	ACCURACY CLASS
60A	BIDIRECTIONAL	12V	0.5 TO 4.5V	0.50%	1%
100A	BIDIRECTIONAL	12V	0.5 TO 4.6V	0.50%	1%
125A	BIDIRECTIONAL	12V	0.5 TO 4.7V	0.50%	1%
200A	BIDIRECTIONAL	12V	0.5 TO 4.8V	0.50%	1%
300V	BIDIRECTIONAL	12V	0.5 TO 4.9V	0.50%	1%
500V	BIDIRECTIONAL	12V	0.5 TO 4.10V	0.50%	1%

Sensing Transformer



Our state-of-the-art sensing transformers provide unparalleled accuracy in detecting and measuring electrical parameters. Designed for diverse applications, these transformers play a pivotal role in power monitoring, energy management, and industrial automation. Experience reliability and precision with our sensing transformers, tailored to meet the evolving needs of modern electrical systems.



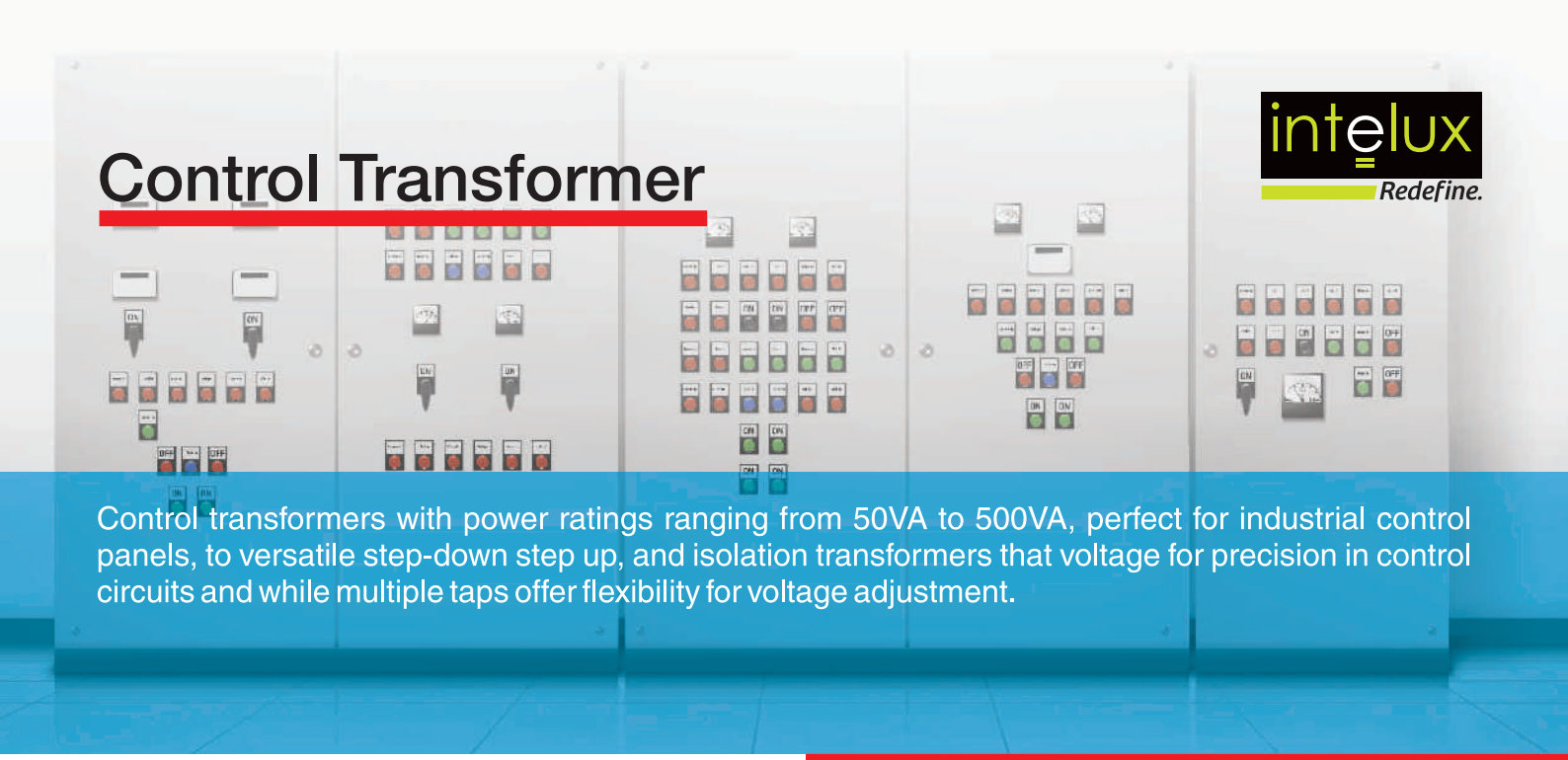
Product Highlights

- High efficiency
- Smaller in size
- 6000VAC reinforced isolation
- Lower power consumption
- Provided with B, F & H class insulation

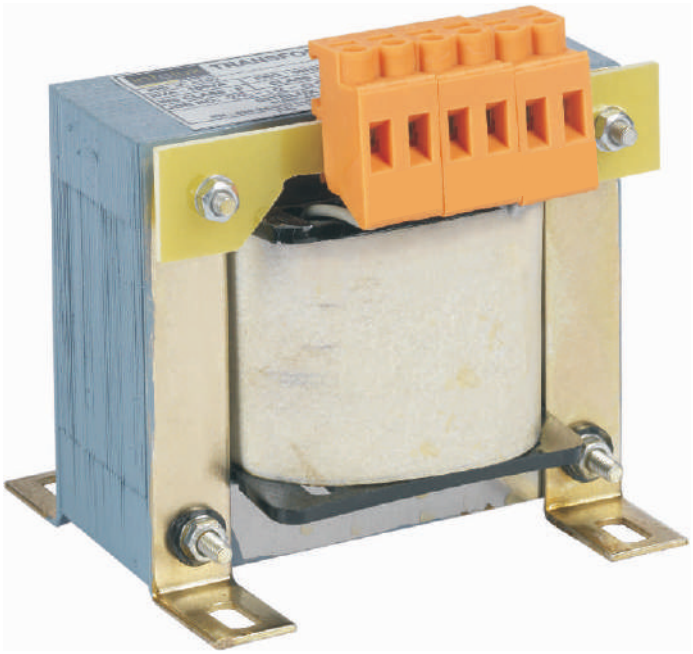
Appplications:
1) Applications of our sensing transformers span across industries, including power distribution, renewable energy systems, smart grids, and industrial automation.
These transformers are instrumental in precise monitoring for load management, fault detection, and ensuring optimal performance in a wide range of electrical applications.

Explore our sensing transformers with a versatile range, featuring VA ratings from 0.1 to 50 VA.
These transformers offer a wide spectrum of applications.

Control Transformer



Control transformers with power ratings ranging from 50VA to 500VA, perfect for industrial control panels, to versatile step-down step up, and isolation transformers that voltage for precision in control circuits and while multiple taps offer flexibility for voltage adjustment.



Product Highlights

- High efficiency
- 6000VAC reinforced isolation
- Lower power consumption
- Provided with F & H class insulation

VPI process using a resin which is then oven cured to completely seal and protect the surface of a transformer and provides a strong mechanical bond.

Appplications:

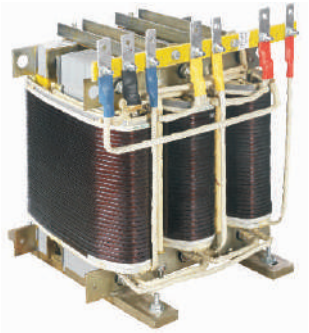
Introducing our range of transformers – the silent powerhouses behind precision and reliability in electrical systems. Engineered for efficiency and safety, our control transformers are designed to cater to a myriad of applications, ensuring optimal performance in diverse settings.

Technical Data Sheet

Rating	I/P Voltage	O/P Voltage
100VA	400/415V	220/230V
250VA	400/415V	220/230V
300VA	400/415V	220/230V
500VA	400/415V	220/230V

Power Transformer

Intelux manufactures various heavy duty transformers catering to the customized requirements of its clients. Present manufacturing capacity is about 40 transformers per day. All the equipment capacities have been designed to prevent any bottlenecks in manufacturing process, backed by experienced and trained man power. Our highly qualified team of design, quality control, sales & marketing professionals are geared-up to give best quality transformers with the best services.



KVA Rating	1 KVA to 1500 KVA
Type	Isolation, Auto, Open Delta
System configuration	Pri : 415 V 3Ph, 4 Wire/3Ph,3W/1Ph.2W
	Pri : 415 V 3Ph, 4 Wire/3Ph,3W/1Ph.2W
Vector Group	Dy1 , Dy11, Dz0 , Yd1 , Yd11 , Yyo , Ddo
Insulation Class	Class F , H
Duty Cycle/K rating	K1 , K4 , K13 , K20
Cooling	Up to 50 KVA Natural Cooling (AN) & above 50 Kva
	Forced Air (For ⩾50 KVA) with Redundant fan
Efficiency	10 to 15 KVA ⩾96%, 20 to 40 KVA ⩾97%,
	50 to 150 KVA ⩾97.5%, 200 to 800 KVA ⩾ 98%,
	850 to 1500 KVA ⩾ 98.5%
Regulation	10 to 15 KVA ⩽4%, 20 to 40 KVA ⩽3.5%,
	50 to150 KVA ⩽3.5%, 200 to 800 KVA ⩽2.5%,
	850 to 1500 KVA ⩽2%
Inrush Current	<600% of rated current
Winding	Copper & Aluminium
Core	CRGO / CRNGO

Transformer Over Sizing & Additional Harmonic Loss Handling Capacity

Sr.No.	K-Factor	Std. Oversizing in KVA Rating for Harmonic Loading	Additional Harmonic Loss Handling Capacity in %
1	K-1	None	None
2	K-4	7%	14%
3	K-13	15%	32%
4	K-20	20%	44%

Remark : Every transformer is individually designed to its specific requirements and applications

Product Highlights

- Compact in size
- High Efficient
- Low power loss
- Effective design of coil geometry to improve the heat dissipation & reduce the hot spots on the winding.
- Effective design of core geometry to reduce the volume of the Transformer's.
- Transformers with the lowest possible no-load loss i.e Core loss, magnetizing currents and Sound level.

Reference Standards

The transformers & reactors are manufactured in accordance with Ref IS & IEC Customer's requirements.
IIS -2026 11171 & IEC 10076 for transformers
IIS -5553 & IEC 60289 for Reactor

Appplications:
1) Automobile 2) Cement 3) Packaging Industries 4) Heating Systems
5) Distribution & Substations 6) Hotel & Medical equipment
7) Control & APFC Panel 8) UPS 9) Plating Rectifiers
10) Inverters Battery Chargers 11) Telecommunication sector

PHYSICAL	
Enclosure Protection	IP20 to IP55
Colour Finish	Structure Finish
Cable Entry	Bottom
ENVIRONMENTAL	
Operating Temperature	0 to 40 °C
Storage Temperature	0 to 55 °C
Relative Humidity	Up to 95 % (Non Condensing)
Altitude	<1000 meter above sea level (without de-rating)
Noise	<65 dB Upto 160 KVA | <72 dB Above 160KVA
	Copper & Aluminium
Input Isolation	Switch / MCCB (optional)

Servo Controlled
Voltage Stabilizer

Intelux Servo Controlled Voltage Stabilizer are the perfect solutions to managed the heavy load on electrical distribution systems because of ever increasing demand of electrical power in residential, commercial and industrial infrastructure. Intelux SCVS provides a constant voltage of 115/110/220/230 volts for single phase and 400/415 volts for 3 phase as a solution for major power fluctuation problems.

Product Highlights

- Incoming MCCB, HRC fuses
- Auto/Manual switch
- Raise/Lower switch in manual mode
- Provision for setting output voltage
- LCD display of I/P and 0/P volts, 0/P and I/P current
- Overload protection by MCCB at input, power on, U/V, 0/V and 0/C trip indication with audio & visual alarm

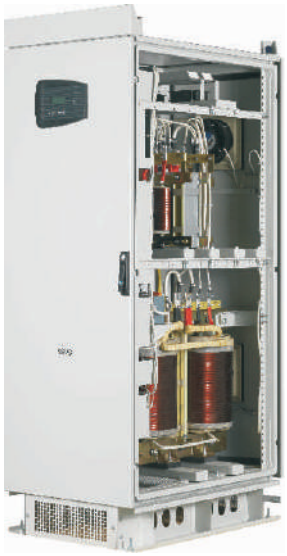
Appplications:
1) Hospitals and medical equipment
2) Process & Power industry
3) Cold storage
4) Commercial and educational institutes
5) Air conditioning plant

Supply	3 Phase	1 Phase
System	3 Phase 4 wire unbalanced load	1 Phase 2 Wire
Supply Frequency	50 ± 3 HZ	50 ± 3 HZ
Designed for input voltage variation	300 to 500 V or	150 to 300 V
	330 to 480 V or	Or 180 to 280 V
	Any customised band of voltage variation	
Output voltage settable at	3 Phase 415 V or 1 Phase 220/230/240 V or	
	1 Phase 110/115/120 V	1 Phase 220/230 V
Output Regulation	± 1%	± 1%
Rating Of SCVS	10 KVA upto 200 KVA	5 to 30 KVA

NOTE : Higher rattings upto 1000 KVA as per requirement

Static Voltage Stabilizer

Intelux range of Static Voltage Stabilizers (SVS) is designed to regulate grid power to sensitive equipment. Intelux SVS has in-built microcontroller to correct output voltage within a few milliseconds of the input voltage change. It is specifically designed to bridge the gap between conventional SVS and servo stabilizers. High reliability and wide input voltage range (from 350V to 475V) are some of the important differentiators.



Product Highlights

- Input voltage range 350V – 475V
- Microcontroller based stabilizer
- Auto cut-off in over-voltage and under voltage condition
- Zero crossing detection
- High efficiency, silent operation
- Stable output wave form
- Over-load protection
- Dynamic response
- LCD display & LED indications
- Available in single and three phase
- Optional isolation transformer for protection from common mode noise
- Optional bypass switch can be provided
- Provision of surge and spike suppression

Model	Single Phase	Three Phase To Three Phase	Three Phase to Single Phase
Output Power(KVA)	5 - 50 KVA	10 - 500 KVA	5 - 500 KVA
Input Voltage	230 VAC 1 PH	415 VAC 3 PH	415 VAC 3 PH
Voltage Range	350 - 475 VAC	350 - 475 VAC	350 - 475 VAC
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Output Voltage	415 V ± 3%	415 V ± 3%	240/230/110/115 V ± 3%
Dynamic Response Time	400 V /µsec	400 V /µsec	400 V /µsec
Protections	**High Voltage Disconnect (HVD) and Low Voltage Disconnect (LVD)**		
Over Load > 105 % < 125%	10 min		
Over Load > 125 % < 150%	1 min		
Over Load > 150 %	Immediate		
Input/Output isolation	5 KV		
Lightening Protection	Theinput from multi-strike lightening 10/350 micro seconds, 50 KA,		
	as per IEC 61312 - 3		
IP Protection	For Indoor IP21, For outdoor IP54		
Efficiency	⩾95%		
Environmental Conditions			
Operating Temperature	(-5°C to 55°C)		
Compliance	EMI/ EMC Complied		
	Environmental test as per TEC QM- 333 B2		
Safety	The equipment tested as per IEC 60950 safety standards		

Appplications:
1) Computer Labs
2) Data Centers
3) Medical Equipment
4) CNC machines
5) Laboratory Equipment
6) Process Industries
7) Telecom Appliances

BLDC FAN

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Redefine.

Intelux has the rich legacy of providing energy efficient power electronics solutions to its esteemed customers.Intelux Fans are BLDC fans. Our Brush less DC fans that consume far less power (30 W) compared to the conventional fans (75 W).Intelux BLDC Fan come with remote control for switching ON/OFF the fan and to regulate the speed.

2 YEAR
Warranty

Product Highlights

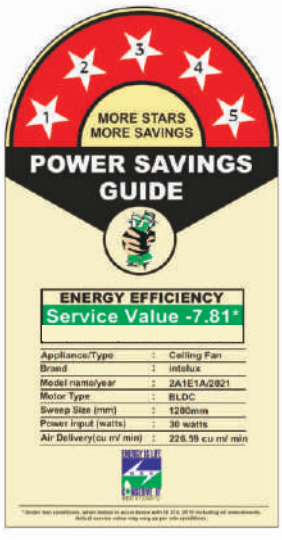
- Energy efficient hence eco friendly
- High speed, high volume of air.
- Remote operated with an impressive range of 20 feet
- Reliable sensor less design
- No heating of fan even after long hours of run time resulting in extra long life
- LED indication for easy remote use
- Zink plated part/accessories for rust free life.

Appplications:
1) Industrial, institutional & corporate users: BLDC fans are suitable for big halls, lobbies and corporate reception areas of your offices
2) Home use: BLDC fans are suitable for kitchens and other rooms at your home.

Technical Data Sheet

Parameter	Normal Induction Fan	Intelux BLDC Fan
Input Voltage (V)	230	140 - 265
Power Consumption (W)	75	30
Frequency (Hz)	50	48-52
Rated Speed (RPM)	380	350
Power Factor	-	0.98
Air Delivery (CMM)	200	226.59
Regulator	Yes	No
Remote	No	Yes
Weight Approx. (kg)	4.5	3

Power consumption at each speed		
Speed	RPM	Wattage (W)
1	148	4
2	183	6
3	225	12
4	274	21
5	345	28



Cell Booster

intelux
Redefine.

"Cell booster" is SMPS based with isolated output, battery charger with settable charging voltage and current control feature. It can be used for various battery current and voltage ratings. The charging voltage and current can be set from 2V to 18V, 4A to 50A. Other ratings of voltage and current can be made available on demand. The cell booster is microcontroller based system. Calibration parameters provided are password protected. Users can set battery charging voltage and current and it monitors all parameters. The unit is protected from short circuit and battery reverse polarity.

Appplications:
As battery chargers in railways and Industrial applications.

Product Highlights

- Front end PFC for high power factor (near unity)
- Low input ATHD,<20%
- Low output voltage ripple
- Input voltage range 180 – 265V
- Constant power operation
- 20x4 character LCD display
- Programmable output current & voltage
- Operation as voltage source or current source
- Calibration of measurements from front panel
- Short circuit protected
- Soft start
- Battery reverse protection is in-built.

Technical Data Sheet

Model Number	Output voltage in Volts	Output current in Amps.	O/P power max, in watts	Input AC operating voltage range	Power Factor	Input ATHD	Operation Mode	Efficiency	Casing	Box dimensions in 'mm'	Protections
SCB 14V 20A	2-14V	2-20A	280	180-280V	>0.95	<15%	CV,CC	>85%	Metal	295 x 434 x 120	O/P Short Ckt, O/P Over Voltage, Input Over Voltage, No Load
SCB 14V 40A	2-14V	4-40A	560	180-280V	>0.95	<15%	CV,CC	>85%	Metal	295 x 434 x 120	O/P Short Ckt, O/P Over Voltage, Input Over Voltage, No Load
SCB 18V 25A	2-18V	2-25A	450	180-280V	>0.95	<15%	CV,CC	>85%	Metal	295 x 434 x 120	O/P Short Ckt, O/P Over Voltage, Input Over Voltage, No Load
SCB 18V 50A	2-18V	2-50A	900	180-280V	>0.95	<15%	CV,CC	>85%	Metal	295 x 434 x 120	O/P Short Ckt, O/P Over Voltage, Input Over Voltage, No Load

DC Power Supply

DCPS is digitally controlled SMPS based DC power supply cum battery charger unit. It consists of 3 SMPS modules and 1 controller module to control and monitor all SMPS modules for load sharing. Each SMPS module supports up to 6A of load. Both float voltage and boost current is adjustable ad pre-settable as per user requirements. It is also fully protected against overload and short circuit. Battery temperature compensation is also provided in case of high temperature rise in battery. It meets EMI/EMC safety standards as per EN norms.

Appplications:
1) Battery Charging with Float-boost mode
2) Power supply for different PLC loads
3) Backup for loads in case of power failure

Technical Data Sheet

AC input voltage (Nominal)	240V
AC input voltage range	190V – 265V
AC input frequency (Nominal)	50Hz
AC input frequency range	47.5Hz-52.5Hz
DC o/p load voltage (Nominal)	24V
DC o/p load voltage range	20.4V to 28.8V (-15%/+20%)
Battery float voltage (Nominal)	26.4V
Battery float voltage range (Adjustable and Pre-settable)	24V to 28V
Battery boost voltage	27.6V
Adjustable boost current	50%-100%
Battery current limited	1.7A
DC o/p load current	3A
Battery temp compensation	Provided
Star-up time	<10Sec
Operating temperature	0°C to -50°C

Product Highlights

- Modular design with N+1 configuration for redundancy
- Two SMPS modules(ASM2405AS) of 6A each for 3A load current and 1.7A Battery charging current
- One additional slot for add-on module
- Auto float-cum-boost charge mode
- Auto current sharing by each module
- Adjustable float voltage and boost current
- MCB's protection for battery • In-built inrush current
- Input AC under/ over voltage protected
- Auto shut off for input AC out of range
- Output over voltage, overload and short circuit protection
- Alarm indication for remote monitoring
- Battery temperature compensated o/p voltage
- LCD display for monitoring

Potential free contacts

- AC Fail/Out of range
- Battery Low Pre-Cutoff
- SMPS Module Fail/Out

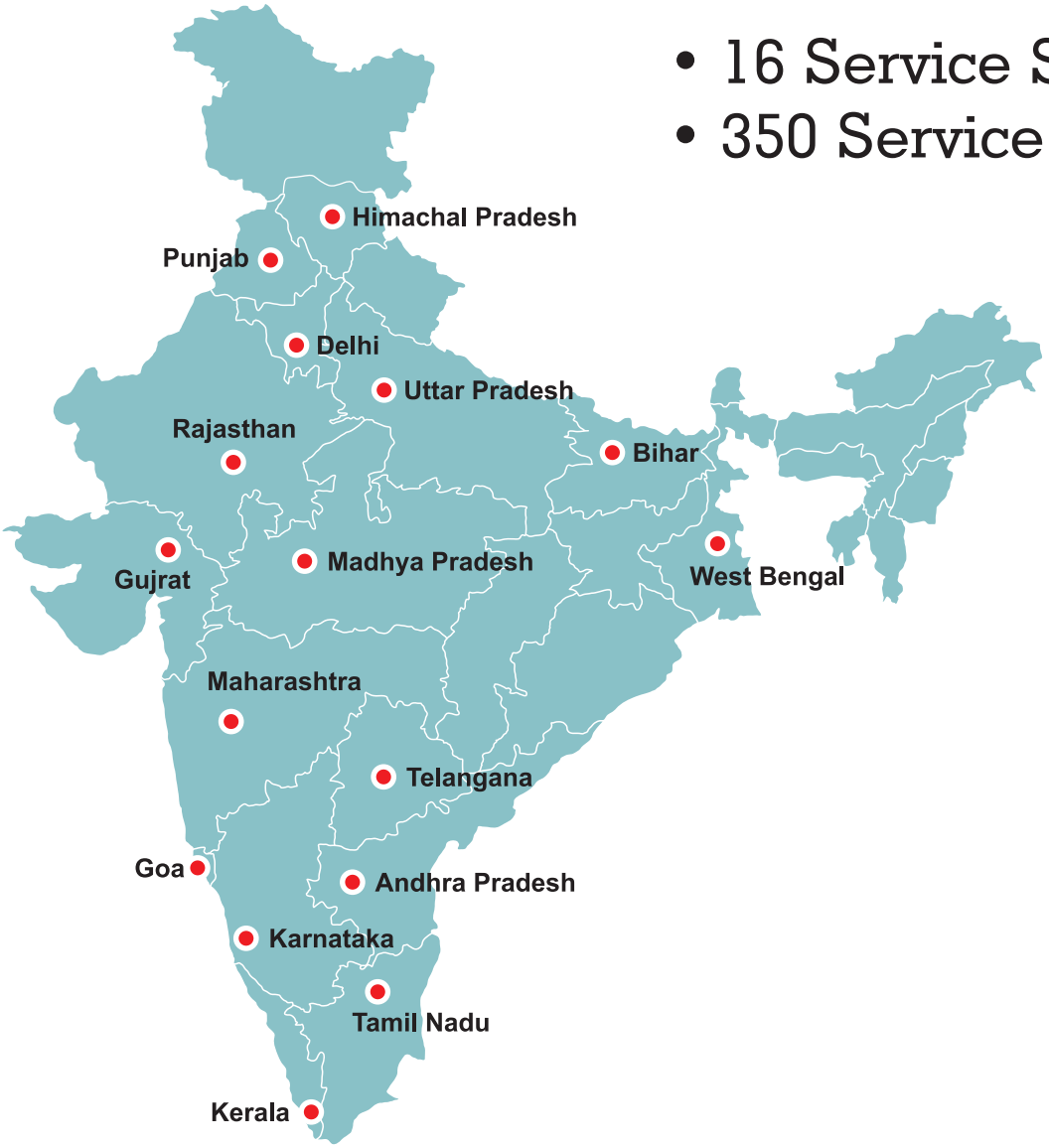
(Both on controller and each SMPS module)

LED Indications

- AC Ok
- AC fail/out of range
- Float charge mode
- Boost charge mode
- System overload
- Load voltage low
- Over Voltage
- SMPS module Fail/Out
- Battery reverse polarity
- Battery low/discharge
- Battery fail/isolated
- Battery temperature compensation fail

Our Pan India Presence

- 16 Service Stations
- 350 Service Engineers



Bringing you a prosperous future
where energy is clean, abundant, reliable
and affordable.

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Redefine.

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