

# WORLD CLASS ENGINEERING TRAINING & EQUIPMENTS

Empowering Your Engineering Career

 **STARLITE**  
EDUCATION



STARLITE ELECTRICAL INDUSTRIES SDN BHD



[starliteelectrical.com.my](http://starliteelectrical.com.my)

## **3 PHASE LOAD BANK**

### **Compliance of Standard:**

- Suruhanjaya Tenaga (ST),
- Jabatan Kerja Raya (JKR),
- IEC 61439-1&2 TYPE TESTED WITH CERTIFICATION

### **ELECTRICAL CHARACTERISTIC:**

1. Rated Operational Voltage: Up to 600V
2. Frequency: 50/60Hz

### **MECHANICAL CHARACTERISTIC:**

1. Form Segregation According to IEC 439-2: 2
2. Degree of Protection According to IEC 529:
  - External IP43
  - Internal 2x
3. Surface Protection: Anti Rust Treatment/ Epoxy Powder Coating / Oven Baked
4. Standard Color: RAL 7032 (Other color upon request)
5. Access: Front and Rear
6. Cable entry: Top and Bottom
7. Ventilation: Mechanical Air Louvers, Exhaust Fan

### **MATERIAL:**

1. Frame Structure Material: EG Sheet
2. Material thickness
  - Frame / Door: 1.5mm.
3. Base: Robust C-Channel
4. Protection Barrier: Polycarbonate Sheet 2.0mm
5. Type: Portable (on heavy-duty wheel)

### **EQUIPMENT CONTENT & SYSTEM:**

1. Incoming & outgoing breaker with specified current rating and KA rating
2. Digital Power Meter (3 Phase Voltage, 3 Phase Current, KW, KVA, KVAR, Frequency, power factor and KWH)
3. Protection Relay (IDMT)
4. Indicator light
5. Resistive Load Bank
6. Inductive Load Bank
7. Capacitive Load Bank



## **WIRING BAY**

### **Product description:**

This training equipment is used by students as a designated place for wiring exercises.

### **TECHNICAL PARAMETER:**

1. Power supply : 3 Phase 415VAC/50Hz
2. Weight : Approx. 200kg
3. Dimension : L1600mm x W1200mm x H2400mm
4. Material : Thick plywood and frame made by steel hollow bar



### **ACCESSORIES:**

1. Industrial Socket: 32A 3PN 5 pin plug
2. Piper Threading Tool Set: Suitable for GI conduit
3. Pipe Bending Tool Set: Suitable for GI conduit
4. Metalclad Distribution Box: 32 way double layer
5. PVC Distribution Box: 26 way double layer
6. Miniature Circuit Breaker:
  - o 20A 3P MCB (QTY: 2)
  - o 20A 3P MCB
7. Residual Current Circuit Breaker:
  - a. 63A 4P RCCD 100mA
  - b. 63A 4P RCCD 30mA
8. Motion Sensor: 24VAC
9. Lighting Sensor: Photocell
10. Fluorescent lamp: 20W LED
11. Ladder: Double sided aluminium ladder 5 steps

## **MOTOR CONTROL PANEL**

### **Compliance of Standard:**

- Suruhanjaya Tenaga (ST),
- Jabatan Kerja Raya (JKR),
- IEC 61439-1&2 TYPE TESTED WITH CERTIFICATION

### **ELECTRICAL CHARACTERISTIC:**

1. Rated Operational Voltage: Up to 600V
2. Frequency: 50/60Hz

### **MECHANICAL CHARACTERISTIC:**

1. Form Segregation According to IEC 439-2: 2
2. Degree of Protection According to IEC 529:
  - External IP43
  - Internal 2x
3. Surface Protection: Anti Rust Treatment/ Epoxy Powder Coating / Oven Baked
4. Standard Color: RAL 7032 (Other color upon request)
5. Access: Front and Rear
6. Cable entry: Top and Bottom
7. Ventilation: Mechanical Air Louvers, Exhaust Fan

### **MATERIAL:**

1. Frame Structure Material: EG Sheet
2. Material thickness
  - Frame / Door: 1.5mm.
3. Base: Robust C-Channel
4. Protection Barrier: Polycarbonate Sheet 2.0mm
5. Type: Portable (on heavy-duty wheel)
6. Labelling & marking: Engraved legends
7. Transparent Acrylic plastic window

### **EQUIPMENT CONTENT & SYSTEM:**

1. Incoming & outgoing breaker with specified current rating and KA rating
2. Analogue Ammeter, Voltmeter
3. Selector switches, Emergency Stop Button, Start/Stop Push Button
4. Indicating lights
5. Digital Three Phase Power Quality Meter c/w SCADA/RTU
6. Power Management System Software (SCADA/RTU)
7. Protection Relay
8. Starter :
  - Auto Transformer
  - Rotor Resistance
  - Soft Starter
9. Motor
  - 3 Phase Induction Motor
  - Slip Ring Motor



**PORTABLE MAIN SWITCHBOARD c/w FLOOR STANDING TYPE CAPACITOR BANK**

**Compliance of Standard:**

- Suruhanjaya Tenaga (ST),
- Jabatan Kerja Raya (JKR),
- IEC 61439-1&2 TYPE TESTED WITH CERTIFICATION

**ELECTRICAL CHARACTERISTIC:**

1. Rated Operational Voltage: Up to 600V
2. Frequency: 50/60Hz

**MECHANICAL CHARACTERISTIC:**

1. Form Segregation According to IEC 439-2: 2
2. Degree of Protection According to IEC 529:
  - External IP43
  - Internal 2x
3. Surface Protection: Anti Rust Treatment/ Epoxy Powder Coating / Oven Baked
4. Standard Color: RAL 7032 (Other color upon request)
5. Access: Front and Rear
6. Cable entry: Top and Bottom
7. Ventilation: Mechanical Air Louvers, Exhaust Fan

**MATERIAL:**

1. Frame Structure Material: EG Sheet
2. Material thickness
  - Frame / Door: 1.5mm.
3. Base: Robust C-Channel
4. Protection Barrier: Polycarbonate Sheet 2.0mm
5. Type: Portable (on heavy-duty wheel)

**EQUIPMENT CONTENT & SYSTEM:**

1. Incoming & outgoing breaker with specified current rating and 50KA rating
2. Analogue Ammeter, Voltmeter
3. Protection Relay (Combined IDMT EF&OC)
4. Surge Protector Device
5. Indicator light
6. Capacitor bank
7. Industrial socket



## **DOUBLE FEEDER MAIN SWITCH BOARD**

### **Compliance of Standard:**

- Suruhanjaya Tenaga (ST),
- Jabatan Kerja Raya (JKR),
- IEC 61439-1&2 TYPE TESTED WITH CERTIFICATION

### **ELECTRICAL CHARACTERISTIC:**

1. Rated Operational Voltage: Up to 600V
2. Frequency: 50/60Hz

### **MECHANICAL CHARACTERISTIC:**

1. Form Segregation According to IEC 439-2: 2
2. Degree of Protection According to IEC 529:
  - External IP43
  - Internal 2x
3. Surface Protection: Anti Rust Treatment/ Epoxy Powder Coating / Oven Baked
4. Standard Color: RAL 7032 (Other color upon request)
5. Access: Front and Rear
6. Cable entry: Top and Bottom
7. Ventilation: Mechanical Air Louvers, Exhaust Fan



### **MATERIAL:**

1. Frame Structure Material: EG Sheet
2. Material thickness
  - Frame / Door: 1.5mm.
3. Base: Robust C-Channel
4. Protection Barrier: Polycarbonate Sheet 2.0mm
5. Type: Portable (on heavy-duty wheel)

### **EQUIPMENT CONTENT & SYSTEM:**

1. 2 Feeder Incomer, 1 Busbar Coupler & outgoing breaker with specified current rating and 50KA rating
2. Analogue Ammeter, Voltmeter, PF Meter
3. Indicating lights
4. Digital Three Phase Power Quality Meter c/w SCADA/RTU
5. Power Management System Software (SCADA/RTU)
6. Protection Relay (Combined IDMT EF&OC)
7. Protection Relay (Combined IDMT EF&OC)
8. Surge Protector Device
9. Indicator light
10. Capacitor bank
11. RLC Load Bank:
  - Resistive Load Bank
  - Capacitive Load Bank
  - Inductive Load Bank
12. Essential Panel Board
13. UPS Supply
14. Changeover Panel Board



# SYNCHRONIZING PANEL c/w MOTOR SYSTEM & LOAD BANK SYSTEM

## Compliance of Standard:

- Suruhanjaya Tenaga (ST),
- Jabatan Kerja Raya (JKR),
- IEC 61439-1&2 TYPE TESTED WITH CERTIFICATION

## ELECTRICAL CHARACTERISTIC:

1. Rated Operational Voltage (VAC): Up to 600V
2. Frequency: 50/60Hz

## MECHANICAL CHARACTERISTIC:

1. Form Segregation According to IEC 439-2: 2
2. Degree of Protection According to IEC 529:
  - External IP43
  - Internal 2x
3. Surface Protection: Anti Rust Treatment/ Epoxy Powder Coating / Oven Baked
4. Standard Color: RAL 7032 (Other color upon request)
5. Access: Front and Rear
6. Cable entry: Top and Bottom
7. Ventilation: Mechanical Air Louvers

## MATERIAL:

1. Frame Structure Material: EG Sheet
2. Material thickness
  - Frame / Door: 1.5mm.
3. Base: Robust C-Channel
4. Protection Barrier: Polycarbonate Sheet 2.0mm

## EQUIPMENT CONTENT & SYSTEM:

1. Synchronizing lamp
2. Synchronoscope
3. Double Voltmeter
4. Double Frequency Meter
5. Synchronizing On/Off Switch
6. Generator Selector Switch
7. Reverse Power Relay
8. Incoming & outgoing breaker with specified current rating and kA rating
9. Synchronous Self Excited Generator
10. Synchronous Permanent Magnet Generator
11. Isolating Transformer
12. Resistive Load Bank
13. Inductive Load Bank
14. Capacitive Load Bank Yes





## **SPECIALIST IN ENGINEERING TRAINING EQUIPMENTS**

### **INDUSTRIAL REAL-TIME**

- Main Switch board
- Change-over / ATS panel
- Motor Control Centre
- Genset / Synchronizing Panel
- SCADA / PLC System & others equipments

### **LAB WORKBENCES TYPE**

- Electrical / Electronic Trainers
- Telecommunication Trainers
- Electrical Vehicle (EV) Trainers
- Renewable Energy (RE) Trainers
- Customisations training equipments

## **STARLITE ELECTRICAL INDUSTRIES SDN BHD**

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