



POWER & COOL TECH LTD.

Electrical & Cooling System Expert



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**All Type of Electrical & Cooling System
Emporter and Spplier**



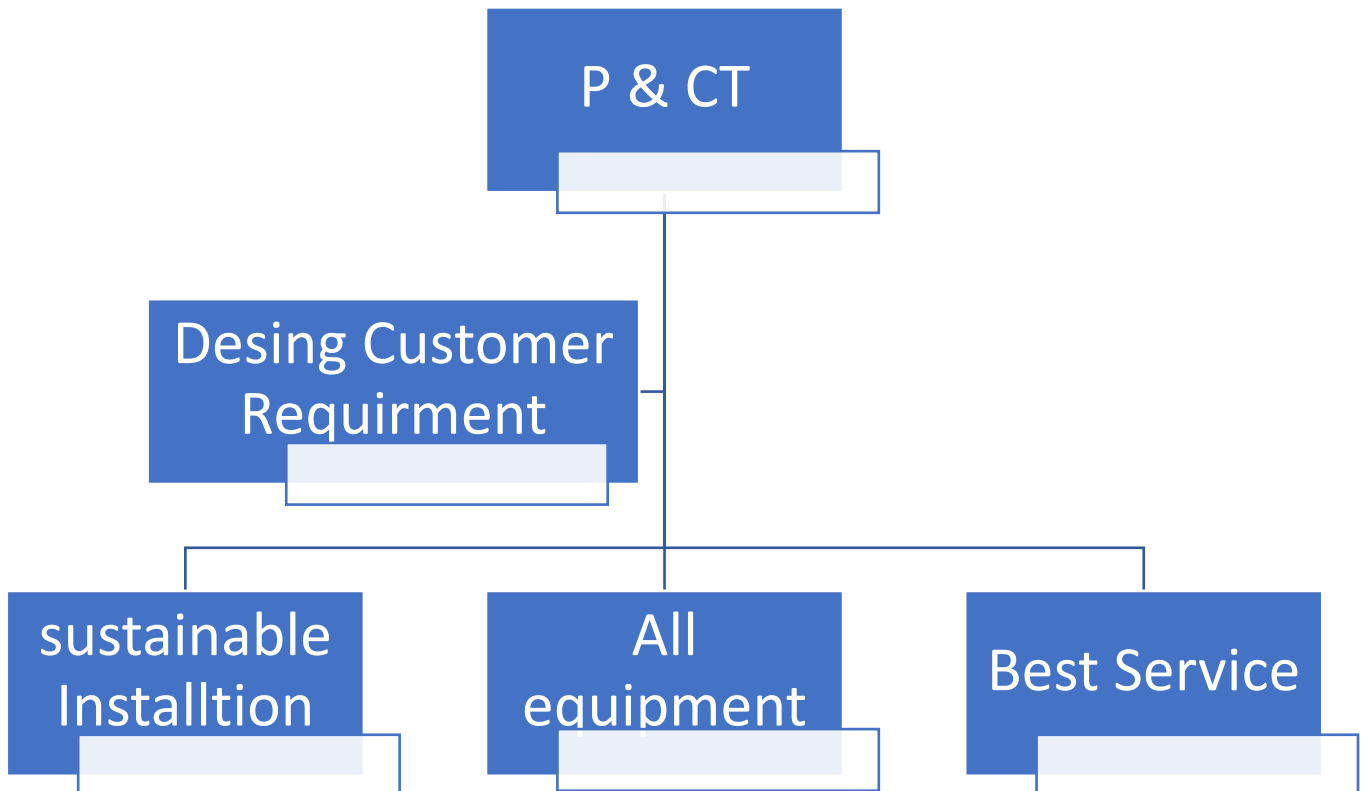
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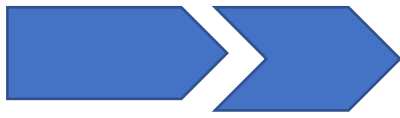


Best Quality and Best service .



Monitoring Lifetime





Power and cooling Technology

Eng: Md Abu Shaied.

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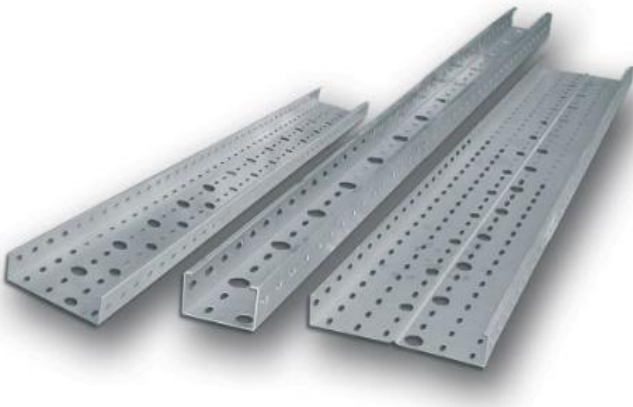
ATS (Automatic Transfer Switch)

- Rated Voltage: 400V,690V
- power supply frequency: 50Hz,60Hz
- Rated Current: Up to 140A
- Switching Time: ≤ 100 ms
- Protection Level: IP00 certification: CCC,CE



Motor/Pump Control Panel

- Control Type: Manual/Auto, Remote Control
- Protection Level: IP5X
- Display: LED Indicators, Digital Touchscreen
- Voltage Range: 24V DC to 600V AC
- Safety Certifications: CE, RoHS



Cable Tray

- SS/GS Cable Trays with Accessories
- Size Any Size Available
- Material Stainless Steel
- Cable Tray Coating Powder Coating, Hot Dip Galvanized & Pre Galvanized
- Mounting Wall/Desk, Floor
- Dimension 100 x 40 x 2 mm, 150 x 60 x 2 mm, Any
- Thickness 1.2 mm, 2mm, 3mm, Any
- Color: GP, steel color, MS



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Generator Electric

- Power Output: 5kVA to 2500kVA
- Fuel Type: Diesel, Natural Gas, Bi-Fuel
- Voltage Output: 230V/380V/400V/480V
- Noise Level: ≤ 65 dB(A) @ 7m
- Emission Standards: EPA Tier 4, Euro V



Low Voltage Capacitor Compensation Cabinet

- Compensation Capacity: 10kvar to 1000kvar
- Rated Voltage: 220V-1000V
- Response Time: ≤ 20 ms
- Control Method: Automatic/Manual
- Protection Features: Overvoltage, Overcurrent, Overheating





VFD Control Cabinet

- Motor Power Range: 0.75kW to 500kW
- Input Voltage: 380V/480V
- Control Modes: V/F, Sensorless Vector, Closed-Loop
- Protection Features: Overload, Overvoltage, Short-Circuit
- Cooling Method: Fan Cooling/ Liquid Cooling



SCADA System

- Data Points: Up to 10,000
- Communication Protocols: OPC UA, MQTT, DNP3
- User Interface: Web-based, Mobile App
- Redundancy: Dual-server Hot Standby
- Security: Role-Based Access, SSL Encryption



HMI (Human-Machine Interface)

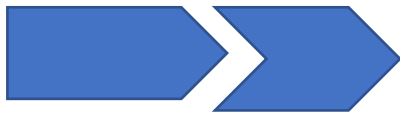
- Screen Size: 7"-15" Touchscreen
- Resolution: Up to 1920x1080
- CPU Speed: Up to 1GHz
- Communication: Ethernet, RS485, Modbus, Profibus



Transformer

- Rated Capacity: 50kVA to 100MVA
- Voltage Ratio: Customizable (e.g., 11kV/0.4kV)
- Cooling Method: ONAN, ONAF, OFAF
- Efficiency: Up to 99.8%
- Noise Level: ≤ 65 dB(A)





MCC Cabinet (Motor Control Center Cabinet)

- Motor Power Range: 0.37kW to 315kW
- Control Modes: DOL, Star-Delta, VFD Integration
- Communication Protocols: Modbus TCP, Profinet
- Enclosure Rating: IP5X
- Busbar System: Copper, 100% Rated Current Capacity



MDB (Main Distribution Board)

- Total Current Capacity: Up to 6300A
- Circuit Breaker Type: ACB, MCCB
- Busbar Material: Copper (Tin-Plated)
- Voltage Level: 400V AC/690V AC



SMDB (Sub Main Distribution Board)

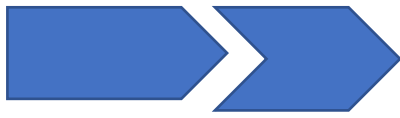
- Branch Circuits: Up to 63
- Current Capacity: 100A to 1600A
- Enclosure Material: Stainless Steel/ Powder-Coated Steel
- Mounting Type: Wall-Mounted
- Protection Features: Surge Protection, Earth Leakage



DB (Distribution Board)

- Current Capacity: Up to 630A
- Circuit Breaker Type: MCB, MCCB, RCBO
- Busbar Material: Copper/Aluminum
- Material: Galvanized/Stainless Steel/Aluminum Alloy
- Mounting Type: Wall-Mounted, Floor-Standing





ATS Cabinet (Automatic Transfer Switch Cabinet)

- Type: PC/BC
 - Transfer Time: $\leq 100\text{ms}$ /demand customization
 - Rated Current: 16A to 4000A
 - Protection Features: Overload, Short-Circuit, Phase Failure
 - Control Logic: Microprocessor-Based
- Enclosure Material : Galvanized Steel/demand customization
Frequency : 50Hz,60Hz,50/60Hz
Brand : ABB,Schneider,Siemens,Chint,other
Certification : CCC,CE
Protection Rating : 4x-5x



Direct Current Panel

- Voltage Range: 24V DC to 1000V DC
- Current Capacity: Up to 1000A
- Input/Output Ports: DIN Rail Terminals, Busbars
- Protection Features: Reverse Polarity, Overcurrent
- Cooling Method: Natural Convection



PLC Control Cabinet

- PLC Compatibility: Siemens, Allen-Bradley, Mitsubishi
 - I/O Points: Up to 1024 digital/64 analog
 - Protection Rating: IP5X
 - Power Supply: 220V AC/24V DC
 - Communication Protocols: Modbus, Profibus, Ethernet/IP
- Operating Temperature ; -20°C to $+55^{\circ}\text{C}$





VCB (Vacuum Circuit Breaker)

Parameter	Value
Voltage Class	: 11 kV / 12 kV / 33 kV
Rated Current	: 630 A / 1250 A / 2000 A
Breaking Capacity	: 16 kA / 25 kA / 31.5 kA
Operating Mechanism	: Spring-charged / Motorized
Standard	: IEC 62271-100



ACB (Air Circuit Breaker)

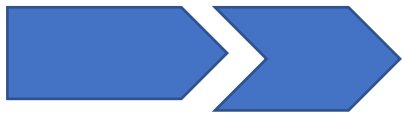
Parameter :	Value
Voltage	: 400 V / 415 V / 690 V
Rated Current	: 800 A - 6300 A
Breaking Capacity	: 35 kA - 100 kA
Type	: Fixed / Draw-out
Control	: Manual / Motorized
Standard	: IEC 60947-2



ABB MCCB (Moulded Case Circuit Breaker)

Parameter	: Value
Brand	ABB (e.g., Tmax XT, SACE series)
Voltage	400 V / 415 V
Current Range	16 A to 1600 A
Breaking Capacity	25 - 70 kA (Icu)
Trip Units	Thermal-magnetic / Electronic
Poles	3P / 4P
Standard	IEC 60947-2





Energy Meter (Digital Multifunction Type)

Parameter	Description
Display	LCD / LED
Voltage Range	230 V / 400 V AC
Current Input	Via CTs (e.g., 5 A)
Accuracy Class	1 / 0.5S
Communication	RS-485 Modbus RTU
Parameters	V, A, kW, kWh, kVA, PF, Hz
Mounting	DIN Rail / Panel Flush
Brand Examples	Schneider, L&T, Selec, Secure, ABB



11 kV CT (Current Transformer)

Parameter :	Value
Primary Current	100 A – 1600 A
Secondary Current	5 A / 1 A
Accuracy Class	0.2S / 0.5S (metering), 5P10 / 10P10 (protection)
Burden	10 – 30 VA
Construction	Resin cast / Oil-filled
Type	Bar type / Wound / Split-core
Standard	IEC 60044-1



Capacitor (Power Factor Correction – PFC)

Parameter	Value
Voltage Rating	440 V / 525 V AC
Capacitance	5 – 50 kVAR per unit
Type	APP (All Polypropylene), MPP (Metallized Polypropylene)
Mounting	Panel / Floor
Protection	Internal fuse / Over-pressure disconnecter
Standards	IEC 60831-1/2





11 kV PT (Potential Transformer)

Parameter	Value
Primary Voltage	11 kV / $\sqrt{3}$
Secondary Voltage	110 V / 100 V
Accuracy Class	0.2 / 0.5 / 1.0 (for metering)
Burden	10 – 100 VA
Insulation	Oil-immersed / Epoxy cast
Standard	IEC 60044-2



Magnetic Contactor

Parameter	Value
Coil Voltage	24V / 110V / 230V / 415V AC or DC
Current Rating	9 A to 800 A
Contact Configuration	3NO + 1NC (typical)
Duty	AC-1, AC-3 (motor control)
Accessories	Auxiliary contacts, timers, mechanical interlock



Wire and Cables

- Conductor Material: Copper (99.9%), Aluminum
- Insulation Material: PVC, XLPE, Silicone
- Voltage Rating: 300V to 35kV
- Temperature Range: -60°C to +200°C
- Warranty: 1 years





Consumable Items

Item Types: Fuses, Terminals, Cable Lugs, Heat Shrink Tubing

- Material: Copper, Brass, PVC, Silicone
- Voltage Rating: Up to 1000V AC/DC
- Temperature Range: -40°C to +125°C
- Certifications: CE, RoHS



Measuring meter



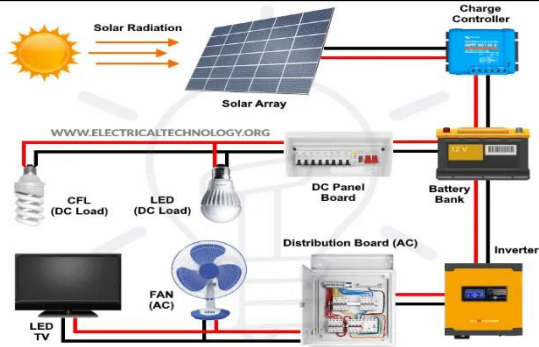
Electrical Safty Component



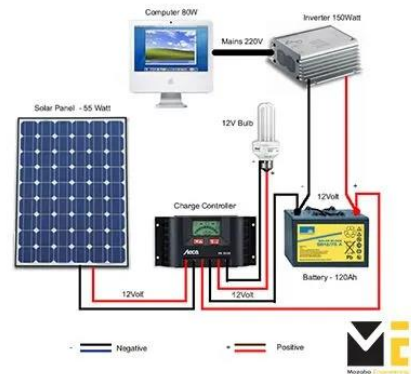


Automation

How to Design & Install a Solar PV System



Solar Panel Installation Diagram



Solar Project

Hybrid Solar Power Plant





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Electrical Item

About Us

We Are Your Favourite Store.

[Power and Cool Tech Ltd.](#) is the biggest, famous and popular Industrial Exhaust Fan and Electrical Equipment (Heavy and light) Importer & Supplier in Bangladesh (01940413535). We have a large number of customers in all over Bangladesh. Our main products are Industrial Exhaust Fan, Industrial Heavy Duty Fan, Axial & Axial Fan, Evaporative Cooling Pad, Roof Mounted Ventilation, Natural Turbine Ventilation, Centrifugal System Exhaust Fan and Electrical equipment like MCCB, MCB, DB, SDB, Control panel, Update Solar system, Automation Etc. Import, Sales, Service and solution.



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