IMO

Established 1972

PRODUCT SUMMARY

www.imoautomation.com

Email: sales-na@imopc.com

Call: 404 476 8810

Call: 905 799 9237

The Future In Control

IMO Precision Controls
Often copied, never equalled... since 1972

Founded in 1972, IMO has grown from its UK base to become a global manufacturer and supplier of industrial control and electronic components and systems. Our history is one of innovation. Whether it is the first ever BT Type 47 Approved relay or the first ever compact AC inverter for motor speed control, IMO has always been focused on breaking barriers. That philosophy extends to the company's service model with features such as advanced online customer ordering and visibility, integrated logistics and the industry's first global third party fulfilment agreement described by the trade press as "a deal ahead of its time".

Our quality assured manufacturing sites ensure IMO products continue to be recognized for quality and reliability. Backed by unique warranty periods of up to Five Years and in compliance with all relevant international standards and approvals, customers specifying IMO products can do so with the knowledge and security that they are making a no compromise selection.

We succeed through the success of our customers. Blue Chip manufacturers the world over rely on IMO to help them achieve higher levels of innovation, competitiveness and reliability. It is a philosophy that continues to deliver results and one which creates close and long lasting relationships with our customers world-wide.

nqa. ISO 9001 Registered Quality Management — UKAS MANAGEMENT SYSTEMS 015

3 YEAR WARRANTY

5 YEAR WARRANTY

- 15,000 products available
- Best warranties in the industry
- Worldwide technical support
- Custom Solutions

Satisfying an ever-growing trend in the market, the IMO Assembly Division provides bespoke solutions to customer requirements for components pre-assembled onto mounting rails, or into enclosures. We can offer totally customised solutions which can include many different control components, such as contactors, relays, timers, miniature circuit breakers etc. IMO can also offer a complete custom wiring solution from prepared cables and cable looms to crimpings, terminations and housings.

Customers can seriously benefit from outsourcing both pre-assembled components and prepared wiring. Benefits include a lower overall cost with reduced installation times, lower inventory expense with no tooling investment, and total peace of mind knowing that every assembled solution comes 100% pre-tested.

Whatever your requirement, from a simple, cable assembly or single rail to highly complex solutions, contact IMO to discuss your needs.

A Global Network...

The IMO brand is increasingly recognised around the world for quality, reliability and cost efficiency. From our traditional UK base, we now derive 50% of our revenue from overseas sales, and we continue to invest in our growth in both home and international markets in order to best meet the expectations of our customers.

With global office locations in the UK, USA, Australia, Canada, France, Italy & South Africa, & with a global distribution network covering Austria, Brazil, Bulgaria, China, Cyprus, Denmark, El Salvador, Finland, Germany, Greece, Hungary, Ireland, Mexico, Netherlands, Pakistan, Portugal, Romania, Russian Federation, Spain, Switzerland, Tunisia & Vietnam, when you buy into IMO, you are buying a truly global brand.

Real Case Studies

Finding our Case Studies couldn't be easier. Use the QR code below to take you directly to the Case Studies Showcase on the IMO website, where you can read about real life applications for our variable speed drives and industrial automation products.

QR CODE SCAN ME

LinkedIn

Join our professional network on LinkedIn for the latest news and product updates.

QR CODE SCAN ME

"The level of support and knowledge provided by IMO was second to none. They were really interested to know what technical issues we had in order to resolve them as quickly as possible. Thanks!"

Specifier, Major US OEM

FREE Programming Software

Here at IMO, when you purchase one of our Industrial Automation products, you gain FREE access to our suite of Programming Software. All of our software is licensed, and is available for the following products:-

- **i3 All-in-one Controllers**
- **iView Advanced HMIs**
- **PLCs**
- **iConnect Remote M2M**
- **iSmart Intelligent Relays**
- **Jaguar Inverter Drives**

IMO Automation Online

The IMO website includes a customer portal for placing orders online and includes an Account Management area, along with all of your historical data. It even makes recommendations based upon your purchasing history. The site also features detailed product search, case studies and much more.

www.imoautomation.com

Industrial Automation

IMO's range of automation products has been designed specifically to meet the demanding needs of today's designers and engineers whose requirements range from a simple limit switch through to the most advanced HMIs and PLCs ever produced.

iView Second Generation HMIs with IoT Features

IMO's second generation of iView Advanced HMIs are provided with IoT features for remote monitoring and control, built-in as standard. The IoT features include IDCS, MQTT, "HMI-in-Hand" Android Application and Windows based software for remote capability. Functionality is available with the iView Developer (v4.0) configuration software.

- Contains over 480 industry protocols for easy integration
- Five touch screen sizes - 4.3", 7.0", 10.4", 12.1" & 15.0"
- Removeable media for data logging
- Remote capability
- Advanced function including: Trending, XY Graph, Alarm Monitoring & Time Scheduling
- FREE licensed programming software with solution-oriented screen objects & high end graphics

IP66 — Ingress Protection for Dust Proofing and Water Resistance

FTP — In-built FTP file transfer functionality allowing remote download

Portrait or landscape orientation

3 In-built Serial Ports including 1 x Screwless

Plug in power terminal for easyfit

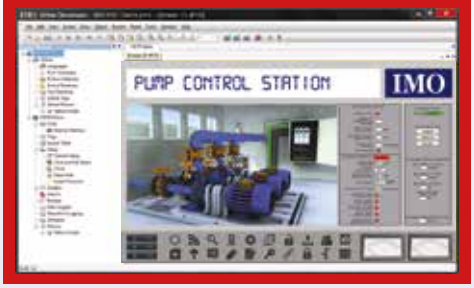
2 In-built USB Ports - 1 x USB A, 1 x USB B for Data Logging

In-built Ethernet Port for remote connectivity

13 Al Aluminium — Aluminium bezel available on selected models

microSD — MicroSD card storage for Data Logging only for the "H" screens

iView Developer - Licensed FREE Programming software



i³ Intelligent Controllers

IMO's acclaimed i³ Controller reduces equipment costs and build time by integrating PLC, HMI and OpenBus communications technology into a single, easy to mount unit.

- Configurable Serial Comms Port
- Up to 24 Digital Inputs
- Up to 16 Digital Outputs
- High Speed Counter
- Modem Interface
- CAN & Modbus based Remote I/O
- Real-time Clock
- CE, UL, cUL Approved
- Addressable Function Keys
- CAN Port
- Up to 6 Analogue Inputs
- Up to 4 Analogue Outputs
- Stepper Control (PWM)
- PID Control
- Alarm Function
- IP65 (NEMA 4X) Protection

FREE Programming software

4.3"	4.3"	4.3"	5.7"	7.0"	10"	15"	22"
i³AX	i³BX	i³CM	i³CX	i³E	i³DX	i³X15	i³X22

www.imoautomation.com

Industrial Automation

iSmart Intelligent Relays

Easy to use and highly cost-effective controller for small automation applications. Offering 10 to 44 I/O, with Modbus option modules for even greater expandability, the iSmart has the same capability as a small PLC.

- Digital, Analogue & Temperature Inputs
- Relay, Transistor & Analogue Outputs
- Powerful Control Logic in Ladder or Functional Block Diagram
- Available with or without Text HMI Screen including Programmable Function Keys
- PID Control (up to 30 Loops)
- Maths Functions
- Retentive Data Registers
- High Speed Inputs & PWM Outputs
- Link Function
- Multi-Language Selectable
- Expansion Modules for more I/O & Communication

FREE Programming software

Inductive Proximity Sensors

IMO Inductive Proximity Sensors range from 3mm in diameter to 30mm threaded, and a small selection of the more popular types is listed below. The standard body is made of nickel plated brass with stainless steel being available in the smaller devices and optional in the bigger sizes. Most devices are available as pre-cabled (2m standard, other lengths available) or with M8/M12 connector. In addition IMO also offers a range of cables to suit all sensors.

- Shielded & unshielded versions
- Standard & long sensing range
- LED indication, 360° visible
- IP67 nickel plated brass housing or stainless steel
- AC & DC versions available

An extensive range of Photoelectric Sensors & Ultrasonic Sensors also available

Limit Switches

IMO Limit Switches are being installed and used daily in every type of indstrial machinery, in all weather conditions and in many different industry sectors including Wood, Metal, Plastic, Automotive, Packaging and Lifting.

- Eight Basic Body Styles
- Metal or Plastic Housings
- Bifurcated contacts for low resistence & high reliability
- 90° rotatable turret head positions
- Wide range of actuators
- Removeable contact block for easy wiring
- Single, Dual or Triple cable entry models
- Over 3,000 configurations
- IP67 (NEMA 6P) Protection
- Range of Microswitches available
- Range of Safety Limit Switches available

Control Panel Products

Industrial Power Supplies

IMO's range of Industrial Power Supplies have been specifically designed for the control and automation marketplace. All offer compeitive pricing and market leading quality, backed up by a 3 year warranty.

- Single & Three Phase Versions
- Universal Input
- AC/DC Operation
- High Efficiency up to 93%
- Class 2 Types
- Up to 5/12/24/960W
- Plastic & Metal Enclosure
- Short Circuit Protection
- DIN Rail Mountable

5VDC
12VDC
24VDC

IMO's range of Industrial MPS Power Supplies deliver the same voltage and power as our DPS and BPS power supplies but squeezed in to a compact design which is ideal for conserving space.

Solid State Timers

IMO's comprehensive range of DIN Rail mountable Timers deliver up-to-the-minute technology. Ranging from the simple single-function through to the muilti-function timer with display.

- 17.5mm DIN Rail Mount Range
- 48 DIN Panel Mount / Plug-In Range
- Multifunction
- On / Off / True Off Display
- Asymentrical
- Star Delta
- 24 - 240VAC / DC, 400VAC (TDSD1)
- Wide Input Voltage Range

Note: TDM10 and TDAS are cULus Approved

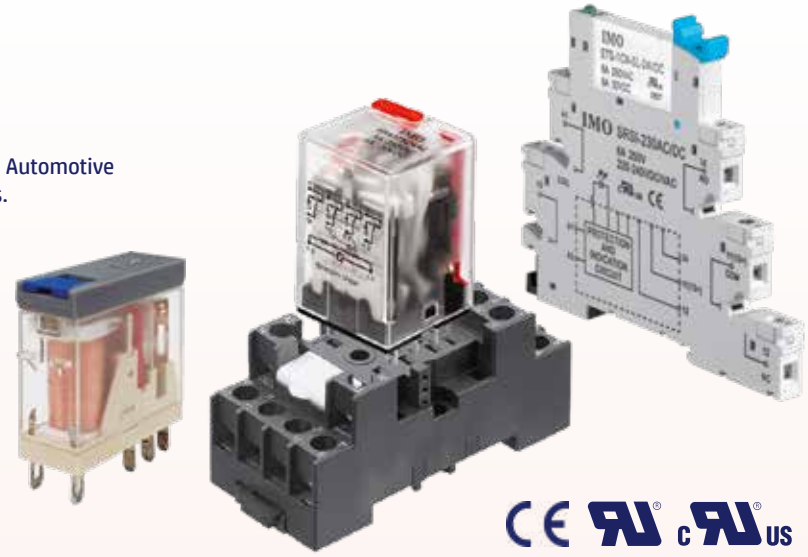
IMO Timers are constructed from the finest materials and offer the best quality to our customers, backed up by our 3 year warranty.
If you require a specific timer and cannot see it here, contact IMO.

Control Panel Products

Industrial Power Relays

IMO's range of Relays includes Signal Relays, Power Relays, Automotive Relays and Solar Relays, plus a range of compatible sockets.

- Plug-N-Play Ice Cube Relays
- Multiple Coil Voltages Available
- Standard & Custom Relays Available
- Blade & PCB Pin Types
- LED Indicator & Test Flag Options
- Complete Range of Accessories
- New Compact Industrial Plug-In Relays and sockets now available



If you require a specific relay and/or base, but you cannot see it here, please contact IMO.

Cam Switches

IMO's range of Cam Switches incorporate a unique building block system that allows for any number of switch variants to be built and supplied to the customer.

- Range of rotary cam switches with choice of 4 operators
- Key operators permit key removal in all latched positions
- Finger-proof screw terminals to IP20 protection
- Enclosed version protection rated IP65
- UL / CSA approved
- Designed to IEC 60947-3
- Single hole, front panel mounting
- Switch body supplied with legend plate for use with square escutcheon frame holder
- DC switching up to and including 30A @ 300VDC
- Motor rated swtiches

Control Panel Products

UL MCB's

Continuing our path of innovation is our range of UL Approved Miniature Circuit Breakers. With an already impressive range of VDE and SEMKO (with RCM in Australia) approved MCBs, RCDs and Isolating Switches, the new series of UL 489 and UL 1077 approved MCBs are the final piece in our jigsaw of comprehensive circuit protection against electrical threats including overloads, short circuits and earth leakages.

- Available from 0.5 Amps to 63 Amps
- Thermo-magnetic overcurrent protection
- 10kA short circuit protection
- RoHS compliant
- B, C & D Type tripping curves
- Contact position indicator

Contactors, Starters & Overloads

- Micro, Miniature & Standard size contactors
- 10A up to 1200A 400V AC3
- Rated to 690VAC
- Minimum Size, Maximum Performance
- AC & DC Operated
- Ambient Temperature -40°C to +90°C
- DIN Rail Mounting up to 115A AC3
- Bifurcated Aux. Contacts
- High Contact Reliability
- 4 Pole Full Rated Version Available
- Coil Connection Top & Bottom (MC10N to MC22N)

Control Panel Products

Motor Protection Circuit Breakers C4

IMO C4 Motor Protection Circuit Breakers are designed to be a compact reliable unit that offers high protection for 3 phase induction motors but can also be used as a motor starter, and for line protection. Integrating the functions of a circuit breaker and thermal overload relay in single unit so they significantly reduce the space requirements and wiring necessary for an installation that would have traditionally used a three component starter assembly.

With ratings from 0.16A to 100A in 3 frame sizes the IMO C4 has a short circuit breaking capacity of 100kA (Icu) and incorporates both thermal overload functionality and phase failure protection for phase-to-phase faults thereby offering comprehensive protection of the motor and controlling electrical circuitry.

- Motor protection rating up to 100 Amps
- Short circuit breaking capacity up to 100kA
- Phase failure protection
- DIN rail mounting
- Wide range of accessories

Non-Fusible AC Disconnects

- 3, 4, 6 & 8 Pole
- On Load 20A - 125A
- Red/Yellow or Black Handles
- Up to 3 Padlock Positions
- Enclosed IP66 - NEMA 4X
- Enclosed, DIN Rail, Base or Panel Mount Versions
- Lightweight Extension Shafts 100mm - 400mm
- Side Mounted Auxiliary Contacts
- Motor rated to Start and Stop motors
- Range of C069 Changeover Switches also available

Enclosed

Base Mounting

Panel Mounting

DIN Rail Mounting

Rotary Handle

Control Panel Products

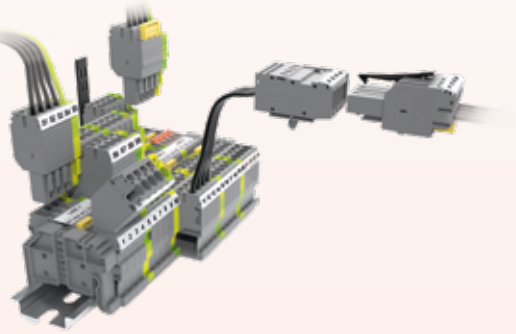
DIN Terminal Blocks

IMO's range of DIN Rail Terminals offers customers a host of features at unbeatable prices. The high quality range includes standard modular feed-through terminals, double and triple level terminals, fused terminals, disconnects and three-level sensor terminals just to highlight a few.

- High quality terminals
- Screw, Spring Clamp, Push Fit & Spring Connection Pluggable types
- Clamp-up design on screw type for stronger hold
- Push Fit - one-step wire install
- Plug-in terminals for servicable connections
- Variety of colors
- Accessories available

Push-Fit - the evolution of the spring clamp system, allowing for tool-free installation, offering up to 70% time saving!

Spring Connection Pluggable - A totally new innovation in connection technology, the SCP range offers socket mounting by way of terminal plugs, specifically designed to withstand vibration.



22.5mm Push Buttons & Pilot Lights

IMO's family of Push Buttons offer a high quality water and dust resistant operation with easy installation and universal fit. Choice of operators include standard momentary, maintained, selector, emergency stop and key selector options. We also manufacture a selection of 22.5mm Pilot Lights, offering multi-chip LED array for bright, reliable and consistent illumination, with 5 colours available.

- IP67/IP65 Protection
- Opaque or Illuminated
- Aluminum, Black or Chrome Bezel
- Snap-On Contact Blocks
- Color Coded Contacts
- Short Circuit Protection
- DIN Rail Mountable
- Maintained or Spring Return
- Assembled Control Stations
- 1, 2 or 3 Hole Push Button Enclosures
- Key Operated Switches
- Labelling Accessories
- Contact Rating to 600VAC (AC1) 10A
- 22.5mm Universal Fit

Variable Speed Inverter Drives

SD1 General Purpose AC Inverter Drives

0.4kW - 110kW (0.5HP - 150HP)

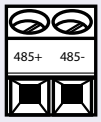
Single Phase up to 2.2kW (3HP)
Three Phase up to 110kW (150HP)

The SD1 range is the ultimate variable speed drive for you! Easy to set up, and comprehensively specified for use in virtually any application, the SD1 is IMO's first complete range of variable speed drives which offer STO (SIL2 / SIL3) dependent upon model, along with a huge range of enhanced features, normally found on much more expensive inverter drives.

A range of EMC filter options makes the SD1 suitable for virtually every industrial, commercial or domestic application.

- IP Protection Rating
- Torque Vector Control
- Supports PM DC Motor Operation
- Up to 150% Starting Torque
- Front Mounted RJ45 Socket (≤2.2kW/3HP)
- DIn Rail Mountable (≤2.2kW/3HP)
- Fixed Keypad with Potentiometer (≤2.2kW/3HP)
- Detachable Keypad (≥4kW/5.5HP)
- HDI Input (Pulse)
- 1/2 Analog Inputs
- 1/2 Analog Outputs
- 2 C/O Output Relays
- Transistor Output
- 4/5 Digital Inputs
- Selectable PNP/NPN I/O
- Integral Modbus-RTU / RS485
- PID Control as Standard
- DC Injection Braking
- Integral Brake Chopper (≤30kW/40HP)
- Motor Auto-Tune (Static & Dynamic)
- Internal DC Reactor (≥18.5kW/25HP)
- Internal C3 Filter (≥4kW/5.5HP)
- Optional C3 Filter (≤2.2kW/3HP)
- Optional C1 & C2 Filter
- CE
- RoHS & Reach Compliant
- UL / cUL (selected models only)
- 2 Year Warranty

2 YEAR WARRANTY



Modbus

Variable Speed Inverter Drives

HD2 High Performance AC Inverter Drives

1.5kW - 500kW (2HP - 670HP)

Three Phase (480V) up to 500kW (670HP)

HD2

The HD2 range of inverters offer unrivalled performance. Designed for controlling asynchronous AC induction motors and permanent magnet synchronous motors, the HD2 torque vector control range are packed full of features as standard that you would usually expect to find on considerably higher specified inverters. Utilising the most advanced vector control technology, the HD2 range delivers sensorless and closed loop vector control for both asynchronous and synchronous motors giving exceptional speed response and control. HD2 offers unparalleled reliability, environmental adaptability, high precision and stable performance - everything you have come to expect from an IMO inverter drive.

The HD2 also offers some significant advantages to the customer including a huge range of functions with simple operation, industrial communication protocols (ModbusRTU, EtherCAT and Profinet) along with Bluetooth and WiFi communication for programming, and with more communication options in development.

- Torque Vector Control
- Up to 150% Starting Torque
- Permanent Magent Motor Control
- Detachable Keypad with Copy Function
- Advanced LCD Keypad
- IP20 / NEMA1 (Full Range)
- High Speed Processor
- Motor Auto-Tune (Static & Dynamic)
- 2 Motor Parameter Sets
- DC Injection Braking
- Flux Braking
- Integral Brake Chopper (<37kW)
- PID Control as Standard
- PLC Option Cards
- DCR (18.5kW-110kW)
- Ethernet (proprietary) Card
- Ethernet IP Card
- EtherCAT Card
- Modbus TCP Card
- Modbus RTU / RS485 Built In
- Profibus DP Card
- CANopen Card
- CAN Master/Slave Card
- Profinet Card
- Bluetooth Card
- WiFi Card
- I/O Expansion Card
- 6 Digital Inputs
- 2 Analog Inputs
- 1 Analog Output
- 2 Relays Outputs

2 YEAR WARRANTY

WiFi

EtherNet/IP Modbus PROFIBUS PROFINET CANopen

Variable Speed Inverter Drives

Jaguar VXT AC Variable Speed Inverter Drives

0.4kW - 315kW (0.5HP - 420HP)

Single Phase up to 2.2kW (3HP)
Three Phase up to 315kW (420HP)

Since its inception in 1984, the IMO Jaguar has represented the cutting-edge of AC inverter design and the latest IMO Jaguar VXT represents the most advanced high performance AC inverter we have ever produced. Packed with features including onboard 200 step PLC functionality, STO (Safe Torque Off) and advanced communications protocols, the Jaguar VXT sets the standard for AC inverter technology letting the user maximise performance whilst minimising additional component requirements in the overall application design.

With IMO's unique 5 Year Warranty and the support of its extensive technical resources around the world, the IMO Jaguar VXT is the natural choice for today's engineer creating tomorrow's design.

- Sensorless Dynamic Torque Vector
- Quadruple Ratings for 400V / 3Ph Models
- Extended Range from 0.4kW to 315kW
- Integral PLC Logic Function - 200 Steps
- STO with SIL3 / PLe Safety Circuit
- Modbus RTU Communication as Standard
- CANopen Communication as Standard
- Motor Auto-Tune for System Optimization
- Carrier Frequency up to 16kHz
- Switch Between Two Motors
- Optimum Energy Control
- Supports PM DC Motor Operation
- Sink / Source Logic
- Inputs Inverse Opertation
- 0-20mA / 4-20mA Input
- RS485 / Modbus RTU / CANopen as Standard
- Internal RJ45 Socket for Comms / Keyboard Connectivity
- Internal Brake Chopper to 22kW
- DC Injection Braking
- Filtered / Unfiltered Models
- RoHS & CE Compliant
- Unique 5 Year Warranty

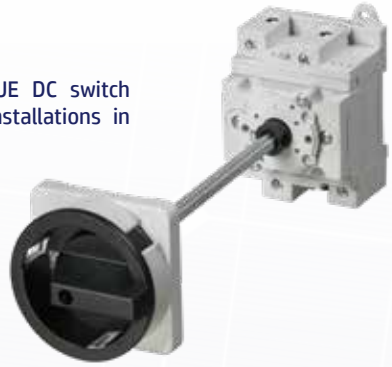
Solar Safety Products

Trust IMO Solar product range for safe and reliable control of solar power. IMO was the first manufacturer to lead the industry in designing a means of disconnecting DC power with little to no arcing normally found in disconnection

TRUE DC Solar Disconnect

IMO Precision Controls offers a complete range of TRUE DC switch disconnects specifically designed for use in solar PV installations in accordance with EN 60364-7-712

- Market-leading design
- 2, 4, 6 & 8 pole versions available
- Max. rated current 85A@1000VDC
- Range of mounting options
- Guaranteed arc supressions (3ms typical)
- Operator independent switching mechanism
- Knife-edge contacts
- Patented Safe-Lock handle position



UL508i

UL508

cULus Approved
Max. rated current 85A@1000VDC

Over 6 Million Worldwide Installations
with ZERO Reported Electrical Failures

Panel Mounting

Base Mounting

DIN Rail Mounting

Enclosed

SIM TRUE DC Mini Solar Disconnect

The next evolution of the market-leading SI Series is the SIM TRUE DC Mini Solar Disconnect, offering all the benefits of the SI Series, in a compact high reliability package. With a 35% reduction in cubic volume, reduced front plate “real estate”, increased ratings and extended mounting options.

The SIM retains the high reliability technology of the SI Series including knife-edge contacts, high speed operator independent swithcing mechanism and full arc control with guaranteed suppression time.

Solar Safety Products

IMO

FireRaptor

The reliable
solar panel rapid shutdown solution

IMO's super-easy to install, solar panel rapid shutdown solution has been designed and developed with fire safety prominently in mind, and offers a reliable way to remotely shutdown a solar PV array in the event of a fire or other emergency.

Compatible with ALL Solar Inverters

- Separate 24v DC Circuit with NO Power Line Communications
- Independent System - No inverter interference or AFCI interference
- Sunspec Compliant
- Rule 21B Compliant - Grid ride through
- Integrated Temperature Sensor - Initiates shutdown above 198°F
- Fail Safe Operation - Loss of power shuts down the system
- Solid State Switch - Life Cycle mean time to failure is 262k hrs (30yrs)
- No Electromechanical components outside of the connectors which are MC4
- 20 Year Warranty with no recorded field failures
- Fully Potted - Tested before & after potting, completely sealed from the elements
- Testing - CE, FCC, UL, cUL, tested, approved, & listed
- NEC2017 & NEC2020 compliant
- Suitable for new installations or retro-fit

CE FC UL cULus nec 2017 nec 2020

20 TWENTY YEAR WARRANTY

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ISO 9001 QUALITY MANAGEMENT

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