

CONSULTING ENGINEERS, BUILDING SERVICES AND CAMPUS ELECTRICAL

Power it. Control it. Prove it.

The electrical line for the one-line you are drawing and the campus it serves: the power connection at the equipment, the protection and the disconnect, the metering that outlives the study, and the data path into the system your group already programs. The manufacturers Dynamic Measurement and Control Solutions represents, organized the way you design, with an application engineer on the phone before the spec locks.

Power it

Energy in, converted, moved. And the switching and protection that keeps it safe.



WALTHER

Connect, disconnect, lock out: one part

The receptacle and the switch are one unit: the circuit **cannot be made or broken under load**, and the handle takes a lock. Service from where you stand, IP67 where the water hits. Series II pin and sleeve, 20 to 100 A at 125 to 480 V, UL Listed and CSA Certified together, one part number for a US or Canadian site.



WALTHER

One feed, outlets where the load lands

Distribution assemblies with breaker protection built in, shipped wired, and finished drops built to length in Somerset, New Jersey as a **UL-listed assembly**, so the listing question leaves the field. One incoming feed in place of a row of conduit runs; genset and emergency-power inlets ready before the outage.



SCHALTBAU

The site battery, the string, the charger

A battery, a PV string or a charger feed does not zero-cross, so the contactor has to clear the arc itself. Schaltbau DC contactors use permanent-magnet arc blowout in an open chamber, **bidirectional, to 3,000 V**: charge and discharge through the same device, isolation you can trust when the site battery faults. C303 at 1,500 V and 500 A continuous.



CELDUC

The heater relay that reports its own state

Solid state relays for electric heat, process heaters and reheat zones, 4 to 125 A single and three phase, with relays and plug-on modules that **report mains, load and protection status**. The controller knows it commanded the output; the relay knows whether current flowed. A broken element drops the load current and the relay flags it before the space goes cold.

Control it

Commanded, coordinated. The protection on the schedule, the disconnect at the equipment, the plant room.



IMO

Protection and the mechanical disconnect

UL-approved miniature circuit breakers, motor circuit breakers, RCBOs and surge protection for the auxiliary and control circuits, mechanical AC disconnects, and the **SI Series TRUE DC isolator** (UL 508, 8 million units installed since 2009) where a PV string needs a real air gap. Same-day dispatch from US stock.



IMO

Pumps, fans and the panel that runs them

Jaguar drives, including harsh-environment models built for vibration, contactors and motor control from compact to heavy frames, iSmart smart relays and XGB PLCs with **license-free programming**, iView HMIs on the door. Contactors with a 3 W sealed coil that run cool in a hot electrical room, cam switches and pilot lights beside them. Up to 5-year warranty on electromechanical components, same-day dispatch from US stock.

Prove it

Proven, not assumed. Metering that stays in after the study, landing where your group already looks.



SATEC

A campus built one wing at a time

The service was sized for the whole site and the total is all anyone has. Metering each building feeder is a handful of devices, not a scheme: BFM-II meters **up to 54 single-phase or 18 three-phase circuits** from one DIN-rail unit, channels added after commissioning, and it stays in after the study where a thirty day logger goes home.



SATEC

Accuracy is decided on the drawings

The CT, its burden, the leads and the wiring decide as much of delivered accuracy as the meter. HACS sensors feed the meter directly, **one CT in the chain instead of two**, no shorting blocks, and split-core windows to 160 by 80 millimeters at 3,000 A clip on around the bus bar at the main service of a building that is already running.



SATEC

Which start sets the peak

PM17x PRO on the service records demand the way the tariff bills it and stamps every event to 1 microsecond, so **the chiller start that landed on the peak is a line in a log**, not an argument. Demand is set in minutes and paid all month; seeing which minutes is the first step to moving them.



BRAINBOXES

Readings into the system you program

The equipment already has an RS-232 or RS-485 port. Ethernet-to-serial puts it on the network; remote I/O picks up states, flows and temperatures at the sensor and presents them as **Modbus TCP devices the building system polls**. The controls are never opened, the equipment logic never touched; SFP fiber ports for the run between buildings.

Foundation

Looks simple. Fails first. Where the schematic meets the panel.



CONTA-CLIP

The panel shop's rail

PPVK potential distribution terminals put **150 or more wire connections on 10 centimeters of DIN rail**; power distribution blocks for the big conductors; TTPCardMAX marking. KDS split cable entry passes a pre-terminated cable through the wall with its connector on, IP66, UL Recognized.



WISKA

Junction boxes built for outside

COMBI junction boxes to IP66, UV and ozone resistant, quarter-turn lids, membrane entries that need no locknut, for the roof, the yard and the pump house. Glands, venting and the Brace conduit system around them, from a company that started on ships in 1919.

Accuracy class is a system property

A Class 0.2S meter reading through a 1 percent CT is a 1 percent system, and the error grows with every metering point you sum. The number on the box only survives if the CT chain lets it.

Every new feeder is a metering point

The California energy code asks for kW and kWh at every new service and feeder, and for load groups on systems of 50 kVA or more to be measurable separately. New services and major alterations are the trigger, so somebody has to spec it.

Where we will say no

Anything deterministic, safety rated or inside the control loop stays with the controller vendor. We do not represent switchgear, transformers, lighting or HVAC, and we do not write the spec. Metering here is cost by building, department and process, never a bill to an occupant. Listings are confirmed on your exact configuration when we quote it.

Talk it through at the design stage

If any part of this card raises a question mid-design, whether that is the feeder metering on the one-line, the disconnect at the equipment or the data path into the building system, that question is exactly what we are for. A short technical conversation before the spec locks usually surfaces the options a datasheet does not.

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THE MANUFACTURERS ON THIS CARD

