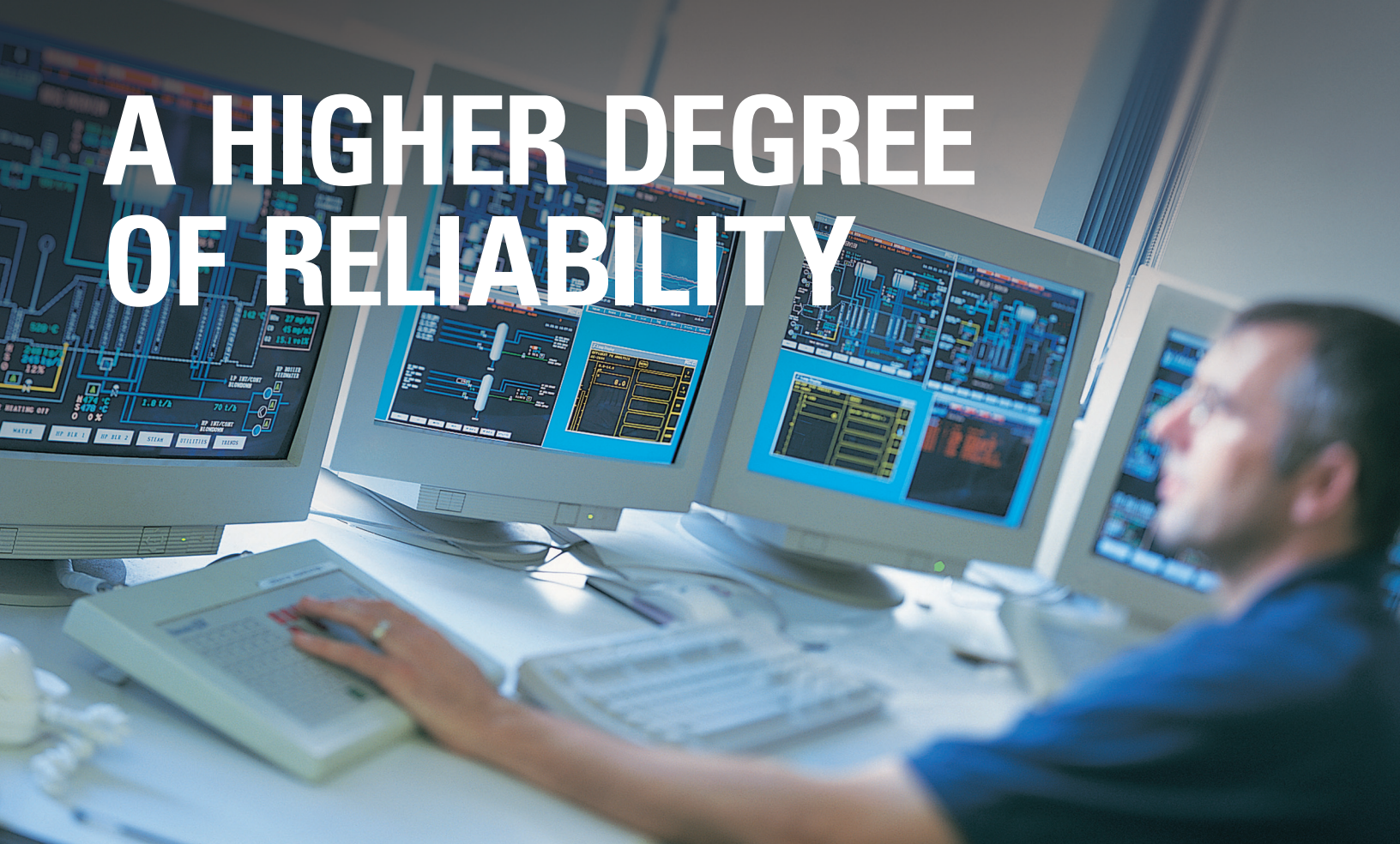


A HIGHER DEGREE OF RELIABILITY



Cat® Generator Set Start Module

When your operation can't afford a moment's lapse in power, you need your back-up system to start reliably. But if your generator set is reliant upon battery starting power, your operation's power could be at risk.



Now, Caterpillar® Electric Power offers a solution that ensures you can have confidence in your back-up power's ability to start time after time. The Cat® Generator Set Start Module substantially mitigates the pitfalls of battery power, working with existing UPS power sources to give your operation starting power you can count on.

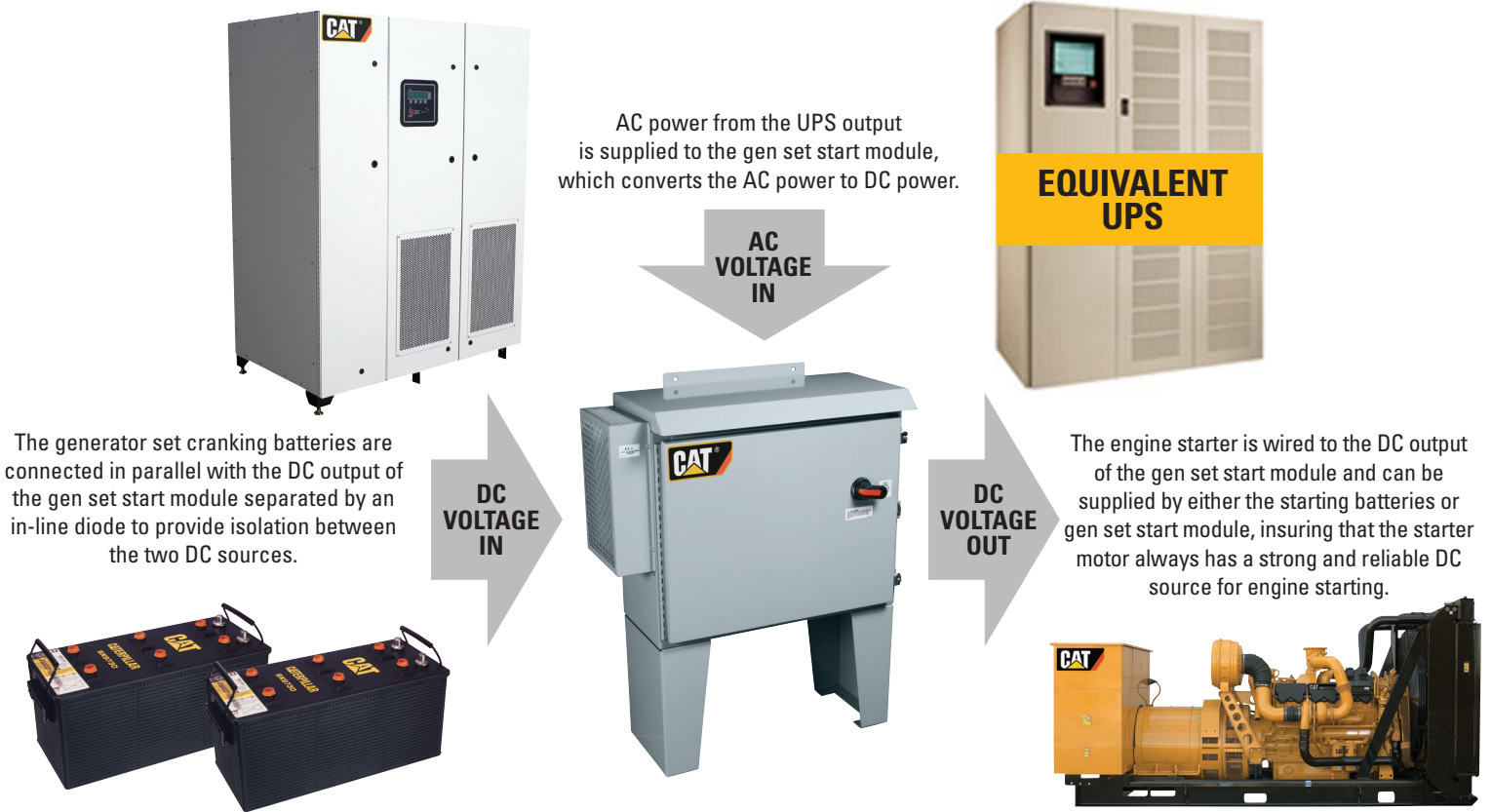
To assure continuous uninterrupted power to critical loads, no matter the type or duration of power disturbance, fortify your power generation system with the most reliable technology available. The Cat Generator Set Start Module is an irreplaceable component of your complete continuous power system.

PROTECT AGAINST SYSTEM FAILURE

The Cat® Generator Set Start Module guards against the dangers associated with batteries:

- Voltage is not a true indication of cranking current
- Environmental exposure reduces battery life
- Battery maintenance is often neglected
- Batteries offer inadequate remote monitoring capabilities

HOW THE SYSTEM WORKS



POWERFUL BENEFITS

As an alternative starting power source, the Cat Generator Set Start Module gives your operation undeniable advantages:

- Low installed costs
- Draws 32 kVA from any existing UPS power source, whether it uses flywheels or batteries
- Provides 1,725 cold-cranking amps at 24 VDC output to gen set starting motors
- Can improve standby generator reliability by up to two nines
- Extremely low maintenance
- Offers starting power monitoring capability

POWER OF THE NINES

Configuration	Single Gen Set System	Total Gen Set Redundancy	2 + 1 Gen Set Redundancy
Battery Only	99.75%	99.99970%	99.99939%
GSSM & Battery	99.967%	99.999963%	99.99993%
Battery Only	2-Nines	5-Nines	5-Nines
GSSM & Battery	3-Nines	7-Nines	7-Nines
Battery Unavailability	21.5 hrs	96 sec	191 sec
GSSM & Bat Unavailability	2.9 hrs	1.2 sec	2.3 sec

Based on IEEE Gold Book Data and Industry Standards

LEDE6528-01

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