

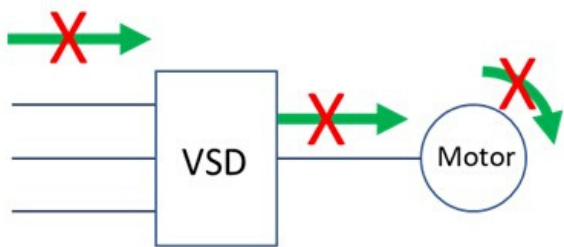


Electrical
Ride
Through

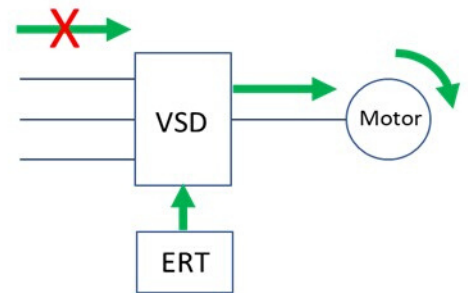
Stable power in the oilfield is uncommon. Brown out's, sags and complete outages are an inevitable consequence of bad weather and overloaded grids. Power Sentry has developed a solution that provides supplementary power during power disturbances. Our patented Electrical Ride-Through (ERT) technology allows operations to avoid the negative impact of power fluctuations on production systems utilizing Variable Speed Drives (VSD). The Power Sentry ERT system is an industry leader when weighed against its competition. Our systems superior performance will maintain a VSD's operation where others fail. At Power Sentry, we don't measure our ability in milliseconds, we quantify success in seconds.

How does ERT work?

POWER FLOW



POWER FLOW



- A power disturbance is experienced as a result of bad weather.
- The VSD trips, shuts down, and a hard start is required.
- Total non-productive time >2 hours.

- ERT protects against those nuisance trips and keeps your drive operational.
- ERT is entirely independent from the drive, only engages when needed and is powered independently.
- Eliminate downtime and prolong equipment life.

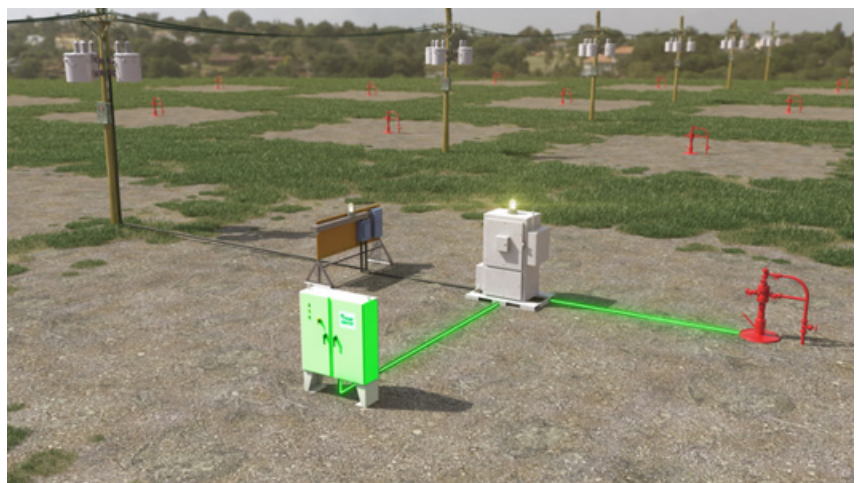
Benefits

Realize incremental production by reducing down-time due to power disturbances, caused by bad weather and overloaded grids.

Lower maintenance and equipment replacement costs as a result of nuisance trips or system failures and stop debris settling on top of your downhole pump.

Reduce your workforce's exposure in having to travel to the field to restart a well.

Extend the life of your equipment.



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Safety



Safety is at the forefront of our mind in every task we undertake and ERT is no exception. ERT has been designed to constantly monitor for over voltage, current and temperature conditions. The system also charges via independent circuitry further limiting unnecessary contact with the VSD. The unit complies with all UL requirements and the enclosure is built to NEMA 3R standards. ERT acts entirely as a stand-alone device and only engages when your VSD needs support.

NEMA 3R

Capability Matrix

System	HP	Voltage (AC)	VSD Voltage Trip Point	FLA	Ride-Through per Load Level (seconds)		
					100%	75%	50%
ERT-300	125	480	350	156	4.7	6.3	9.4
ERT-300	150	480	350	196	3.9	5.2	7.8
ERT-400	200	480	350	241	9.2	12.3	18.4
ERT-400	250	480	350	313	7.4	9.8	14.7
ERT 500	350	480	350	469	10.5	14.0	21.1
ERT-500	450	480	350	546	8.2	10.9	16.4
ERT-500	500	480	350	623	7.4	9.8	14.7

Where is ERT currently installed?



About Power Sentry

Power Sentry is an industry leader in providing innovative solutions for power management. We are passionate about delivering technology that serves the dual purpose of reducing operating expense and improving ESG outcomes for our clients.

Power Sentry is in proud partnership with CSL Capital Management, a Houston-based private equity firm specializing in energy services, equipment, and technology.



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