



## HV MAX

Powerstar HV MAX provides a combined solution to two common problems, combining a super low loss amorphous core HV/LV transformer with integrated electronic dynamic voltage optimisation technology, allowing for 11,000V input (other inputs available) and regulated 380V or user defined output.

### SOLUTION FEATURES

- ✦ The super low loss amorphous core transformer is 99% efficient, and will provide up to an additional 3% saving on electricity consumption from traditional HV transformers.
- ✦ The integrated electronic-dynamic voltage optimisation technology offers up to a further 10% consumption saving.
- ✦ Ideal solution for sites which operate their own HV/LV supply.
- ✦ Undervoltage controller (UVC) – A control system that does not interrupt the incoming electricity supply to the Powerstar system. The UVC will remove the voltage reduction applied when a set point has been reached. The unit is not electrically isolated from the supply.
- ✦ Break before make (BBM) – A bypass switch for disconnecting the incoming electricity supply directly to the load, removing the Powerstar system from the circuit. This requires an interruption to the incoming electricity supply and is operated manually.
- ✦ Circuit protection (CP) – Circuit protection provides protection against both overload and fault currents for the equipment downstream. If the current exceeds the trip value (this can be either the rating of the CP or the derated value) then the CP will trip and interrupt the circuit.

### AVERAGE CONSUMPTION SAVING

**10-12%**

### BENEFITS:

- ✦ Up to 75% lower core losses compared to CRGO transformers
- ✦ 100% Guaranteed savings
- ✦ Carbon emission reductions
- ✦ Reduced wear and tear on electrical equipment
- ✦ Maintenance free system
- ✦ Patented design
- ✦ 15 years warranty & 50 year lifespan

TYPICAL PAYBACK PERIOD FOR POWERSTAR'S VOLTAGE OPTIMISATION SOLUTIONS:

**2 – 4 years**



**SAVE**  
ELECTRICITY  
COSTS



**PROTECT**  
CORPORATE SOCIAL  
RESPONSIBILITY AND  
REPUTATION



**REDUCE**  
FINANCIAL RISK  
INCREASE BOTTOM LINE  
AND CUT CAPITAL  
REPLACEMENT COSTS



**CUT**  
CARBON  
FOOTPRINT