

## NS-IRS Power control systems for IR ovens

Benefit from our 15 year experience and leadership in IR oven control, with more than 45'000 PWR and IRS systems running world wide.

NS-IRS is a new generation of power controllers, that brings brand new features for a better process and easier integration.

### NS- IRS brings total control over the heating process.

Power and voltage regulation (true RMS)  
+/-0.5% accuracy on the regulation

Closed loop on supply voltage  
Closed loop on lamps resistance  
Lamps controlled individually  
Lamps resistance monitoring

Fast detection of dead lamps - 100  $\mu$ s  
Deterministic overload protection

Over-voltage protection  
Harmonics suppressor

### Operating on a large range of power supplies.

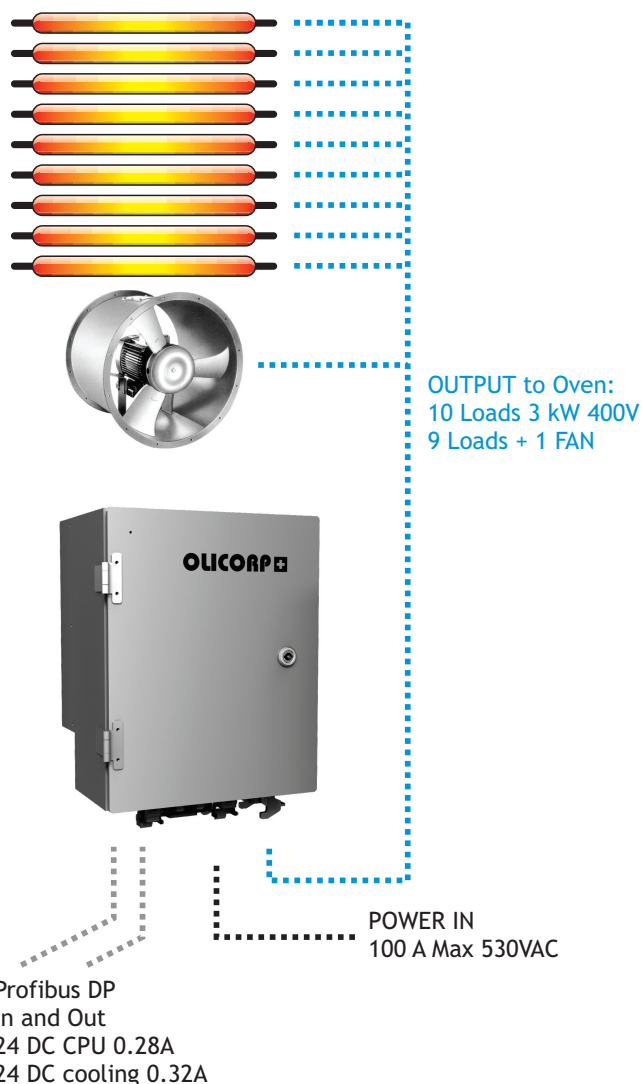
Running from 180 up to 530VAC, 47-63Hz  
Allows to use low voltage lamps on higher voltage supplies.

### Options

- Flash disk recording of electrical parameters for the oven and the supply network (Power, Resistance, Perturbations, Voltage variations, Events, Consumption and etc.)

- Cooling system

- BlueTooth communications for wireless control and monitoring of the power



### Simplified integration:

Full compatibility with the earlier PWR and IRS systems.  
Reduced power losses down to 0.15%  
Quick mounting design  
Fast plug terminators

Channels : 10 or 9 + Oven fan  
Voltage : 180-530 V 47-63 HZ (supply 2 phases + ground)  
Load : 70A, max 7Amp / channel  
Protection : IP65  
Max Current Icc : 35 kA when used with adequate upper protection  
Max Overload acceptance : 60'000A2s  
Operating conditions : 5 °C - 55 °C  
Communications : Profibus DP  
Certification : CE, CSA, CS-UL