

POWER SUPPLY : 85Vac to 1300Vac or 120Vdc to 1800VDC

KPS_DCDC_HTO 150W

Description:

Industrial Power Supply – Robust, Configurable, and Fully Protected
Designed to meet the most demanding requirements of the industrial and energy sectors, our power supply offers a reliable, flexible, and durable solution.

- Fully configurable upon request: voltage, current, connectors, form factor, etc.
- Complete protection: against overloads, short circuits, overvoltages, and excessive temperatures
- Industrial robustness: guaranteed operation in the most demanding environments
- Applications: industrial automation, energy systems, photovoltaics, wind power, coal mining, critical equipment, etc.
- Contact us for a personalized study.



This power supply solution combines safety, ease of installation, and maximum reliability to meet the growing demand for innovation and technological performance.

The range is distinguished by a wide input voltage range, minimal ripple, and reduced heat generation, ensuring optimal stability. Its low standby power consumption, excellent energy efficiency, and high reliability make it a sustainable and high-performance choice.

Integrated thermal insulation further provides enhanced protection, even in demanding environments.



Features :

Input :

-85Vac to 1300Vac
-120Vdc to 1800VDC

Output possibility :

-24Vdc / 28Vdc/32Vdc/35Vdc
- Fully protected: Short circuit, overload, thermal

Power output :

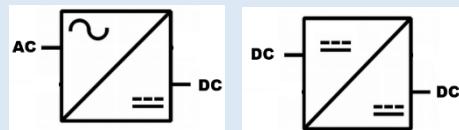
-150 W max

Option:

- DIN rail, surface or surface mounted



Synoptic:



Technical specifications:

| KPS_DCDC_HTO | |
|-------------------------------------|--|
| Input voltage typical | 85 à 1300VAC 120Vcc à 1800Vcc |
| Inrush current | 50A typique , selon modèle |
| Efficiency typical | >88% |
| Input frequency | DC ou de 47hz à 63hz |
| Output adjustment precision | +/-2% max |
| Output regulation | +/-2% max |
| Online regulation (input variation) | +/-0.5% |
| Output ripple | < 1% max (limité à 20MHz) |
| Temperature stability | +/-0.02%/°C typique |
| Protection | court-circuit continue , redémarrage automatique |
| Protection surcharge | 110% à 140% du courant nominal |
| Switching frequency | 65kHz typique |
| Output retention time | 350ms typique |
| Isolation voltage | 4000Vac |

For safety reasons, observe the following requirements:

- Mount the unit in a protective enclosure that complies with current electrical safety regulations.
- Use cables with an appropriate cross-section to connect the inputs and outputs.
- Protect the primary circuit with a recommended fuse.
- Position the power supply to ensure proper airflow for optimal ventilation.

| Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE | |
|---|----------------------------------|
| Immunity standard for industrial environments EN 61000-6-2 | |
| ESD | EN61000-4-2 6kv Critère B |
| Radiated Susceptibility | EN61000-4-3 10V/m Critère B |
| EFT/Burst | EN61000-4-4 2kv et 4kv Critère B |
| Surge | EN61000-4-5 4kv Critère B |
| Conducted | EN61000-4-6 10Vrms Critère A |

| Environnement | |
|--------------------------|-------------------------|
| weight | ~1.5kg selon la version |
| Dimensions | 187mmx 113mmx 69mm |
| MTBF (+25°C) | 300 000 H (Hors FAN) |
| Storage | -40° à +85°C |
| Humidity (not condensed) | ~85% |
| Temperature working | -25 à +70° C |

| Output Specification | | | Max. Capacitive Load @450Vac | Ripple& Noise @ 20MHz | Efficiency@ 450Vac (Typ.) |
|----------------------|----------------|-----------------|------------------------------|-----------------------|---------------------------|
| Power (W) | Voltage Vo1(V) | Current Io (mA) | u F | mVp-p | % |
| 150 | 24 | 6250 | 5000 | 100 | 88 |
| 150 | 28 | 5360 | 5000 | 120 | 88 |
| 150 | 32 | 4688 | 4500 | 150 | 89 |
| 150 | 35 | 4286 | 4000 | 150 | 89 |

Input Specifications

| Item | Operating Condition | Min. | Typ. | Max. | Unit |
|-----------------------|---------------------|------|------|------|------|
| Input Voltage Range | AC Input | 85 | 450 | 1300 | VAC |
| | DC Input | 120 | 636 | 1840 | VDC |
| Input Frequency Range | - | 47 | 50 | 63 | Hz |
| Input Current | 176VAC | / | / | 1.8 | A |
| | 450VAC | / | / | 0.8 | |
| Surge Current | 450VAC | / | / | 130 | |
| | 760VAC | / | / | 270 | |
| | 1300VAC | / | / | 390 | |

Spécifications de sortie

| | | | | | | |
|---------------------------|--------------------------------|-----------|------|-----|-----|--|
| No load power consumption | Input 450VAC | - | - | 1.5 | W | |
| | Input 1300VAC | - | - | | | |
| Minimum load | Single Output | 0 | - | - | % | |
| Turn-on Delay Time | Rated input voltage, full load | - | 2000 | - | ms | |
| Power-off Hold up Time | Input 450VAC (full load) | - | 150 | - | ms | |
| | Input 760VAC (full load) | - | 350 | - | | |
| Ripple & Noise | 20Mhz bandwidth (peak to peak) | - | 50 | 150 | mV | |
| Over Voltage Protection | Output 24VDC | ≤ 35 | | | VDC | |
| | Output 28VDC | ≤ 45 | | | | |
| | Output 32VDC | ≤ 50 | | | | |
| | Output 35VDC | ≤ 50 | | | | |

Product Performance Curve
