

VDS

HV DISTRIBUTOR MODULE WITH CFG IN VME STANDARD

SYSTEMS



- ▶ 8 / 24 channel, 500 V / 3 kV versions
- ▶ cost per channel efficient distributor principle
- ▶ live insertion capability
- ▶ low ripple and noise
- ▶ hardware voltage and current limit
- ▶ voltage control and current measurement per channel
- ▶ programmable parameters (delayed trip etc.)

The cost effective VDS distribution modules are multichannel high voltage power supplies in VME standard. The VDS is built in common floating ground principle to reduce voltage noise level. With up to 24 channels each single channel has an independent voltage control. The module is made of high precision components such as 24 bit ADC and 20 bit DAC and provides comprehensive security features.



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SPECIFICATIONS / SPEZIFIKATION

| | VDS STANDARD |
|---------------------------------------|---|
| Polarity | factory fixed, positive or negative |
| Channels | 8 24 |
| Ripple and noise | < 20 mV [$V_{diff.ch.} < 600 V$] |
| Resolution voltage setting | $1 \cdot 10^{-5} \cdot V_{nom}$ |
| Resolution voltage measurement | $1 \cdot 10^{-5} \cdot V_{nom}$ |
| Resolution current measurement | $2 \cdot 10^{-4} \cdot I_{nom}$ |
| Accuracy voltage measurement* | $\pm (0.01 \% \cdot V_{out} + 0.02 \% \cdot V_{nom})$ |
| Accuracy current measurement* | $\pm (0.1 \% \cdot I_{out} + 0.1 \% \cdot I_{nom})$ |
| Rate of voltage change | up to $0.2 \cdot V_{nom} / s$ opt. up to $0.75 \cdot V_{nom} / s$ |
| HV connector | SHV R51 |
| Case | 6U VME, width 1 2 slots |
| Protection | INHIBIT, Safety loop, short circuit, overload, hardware V/I limits |

*All specifications guaranteed from $1\% \cdot V_{nom} < V_{out} < V_{nom}$

CONFIGURATIONS / KONFIGURATIONEN

| MODEL | CHANNELS | OUTPUT VOLTAGE | OUTPUT CURRENT | CONNECTOR | SLOTS |
|-------------|----------|----------------|----------------|-----------|-------|
| VDS 81 05x | 8 | 500 V | 1 mA | SHV | 1 |
| VDS 181 05x | 24 | 500 V | 1 mA | R51 | 2 |
| VDS 81 30x | 8 | 3 kV | 500 μ A | SHV | 1 |
| VDS 181 30x | 24 | 3 kV | 500 μ A | R51 | 2 |

Other configurations on request! Andere Konfigurationen auf Anfrage.



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iseg is a manufacturer of very precise and stable High Voltage Power Supplies with focus on physics and industrial applications. The product portfolio includes AC/ DC, DC/DC and modular High Voltage systems. The company was founded in 1995. Continuous growth and innovation strengthened the company's market position. iseg is well known for the development of outstanding custom specific solutions for various special applications.