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Sorensen DCS Series

General Purpose Systems Power Supply

- High power density / low ripple and noise
- High programming resolution with Ethernet interface
- Constant voltage and current mode
- Remote sensing
- Isolated analog control and monitoring (optional)



8–600 V 1.7–350 A ∼ 115 230 ≈ 208 230

GPIE LXI RS232

DCS Applications

The Sorensen DCS Series (hereafter DCS Series) is ideally suited for a wide range of applications requiring DC power in a small form factor. Applications range from manufacturing test and burn-in of automotive components, avionics electronics, telecommunications and consumer products to beam steering, process control and laboratory R&D use.

The DCS Series is comprised of 1kW, 1.2kW and 3kW programmable power supplies utilizing switchmode technology to achieve high power density in a low profile chassis. The design platform provides a highly reliable power supply for years of constant use. The unique design is available in a variety of maximum voltages from 8V to 600V and maximum currents from 1.7A to 350A with low ripple and noise.

This user-friendly platform can be controlled from the front panel with 10-turn potentiometers to adjust voltage, current and OVP settings. LEDs indicate over temperature, remote programming, shutdown and overvoltage protection

Remote control options allow full computer control through IEEE-488 (option M9C), LXI Standard Compliant* Ethernet LAN (option M130) or RS-232 (options M9C, M130)

Automotive Component Test

The 16-bit resolution of the Ethernet programming and hardware triggering allows for detailed sequencing associated with battery fluctuation simulation. The tight load regulation capability of the DCS series makes it a superior source for validation and acceptance testing and burn-in of automotive components. The 20V models, in particular, provide a full range of testing to simulate battery conditions. Margin testing of 12V and 14V nominal components, such as electronic control units (ECU) and electromechanical components, is easily achieved.

Rackmount ATE Systems

The high power density of the DCS series makes it ideal for ATE System integration. The wide variety of voltage and current combinations in 1U and 2U heights allows multiple voltage outputs in a small amount of space. The wide variety of control methods possible, allows easy integration into legacy systems as well as high speed systems.

Battery Charging

Battery charging requires high accuracy voltage and stable current output for fast bulk and absorption phase charging and high accuracy and stable voltage for float charging to avoid "gassing" the battery. The DCS series provides a high accuracy voltage output to optimize battery charging. With the remote interface options, the charging process can easily be automated for volume production.)

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| Common | | | | | | | | | | | | |
|---|--|---|---|---|----------------------------------|--|------------------------|--|----------------------------|------------------|--|--|
| Meter Accuracy | | 1% of full scale + 1 count | | | | | | | | | | |
| Max. Voltage Differentia Safety Ground | al from Output to | 150 VDC | | | | | | | | | | |
| Remote Start/Stop and | Interlock | TTL compatible input or 12-250 VAC (12-130 VDC) or a contact closure | | | | | | | | | | |
| Cooling | | Internal fan, over temperature shutdown if internal heat sink exceeds set temperature | | | | | | | | | | |
| Remote Sense | | The maximum 3 kW models) | allowed sense lir . Line drop subtra | ne drop is cts from t | 4V per line (2V he maximum av | on the l vailable | DCS 8/10\ output vo | / 1 kW/1.2 kW models Itage at full rated powe | and 1V/line for all er. | | | |
| Remote Programming | | Enabled via ex | kternal jumper on | rear pane | el connector J3 | | | | | | | |
| Overvoltage Protection | | Crowbar type | adjustable from 5 | -110% of | f rated output u | sing from | nt panel c | ontrol (local or remote | program selectable | e via J3 jumper) | | |
| Remote Analog Program | nming Linearity | ±1% | | | | | | | | | | |
| Accuracy | | ±5% | | | | | | | | | | |
| Regulatory | | Certified to UI | /CSA 61010 and | IEC/EN 61 | 010-1 CE. Con | npliant (| LVD and E | MC directive) | | | | |
| Input | | 1 kW | | 1.2 kW | V | | 3 kW | | | | | |
| Voltage Ranges | | 200-250 VAC | / 100-132 VAC | 200-250 | 0 VAC / 100-132 | 2 VAC | 190-250 | VAC / 200-250 VAC | | | | |
| Phases | | Single Phase | | Single P | hase | | Three Ph | ase / Single Phase * (S | ee Below) | | | |
| Current | | 8A typical, 47-63 Hz 15A typical, 47-63 Hz | | 9A typical, 47-63 Hz 18A typical, 47-63 Hz | | 190-250 VAC, three phase, 14A, 47-63Hz. * (See Below) User configurable for: 200-250VAC, single-phase operation, 20A, 47- 63Hz. | | | | | | |
| | | | | | | | " See th | e modified operation c | urve below. | | | |
| Output | | | | | | | | | | | | |
| Stability | | ±0.05% of maximum voltage or current over 8 hours after 30 minute warm-up time at fixed line, load and temperature | | | | | | | | | | |
| Line Regulation | | For input voltage variation over the AC input voltage range, with constant rated load. | | | | | | | | | | |
| Load Regulation | For 0-100% load variation, with constant nominal line voltage. | | | | | | | | | | | |
| Voltage Resolution | 0.02% | | | | | | | | | | | |
| Transient Response | | Typically recovers in 500 μs (1 & 1.2 kW) or 1ms (3k W) to 1% of steady-state output voltage (within 1% of Vmax) for 70-100% or 100-70% load change. | | | | | | | | | | |
| Output : Voltage an | nd Current | | | | | | | | | | | |
| 1 kW Model | Voltage | Current | 1.2 kW Mode | el | Voltage | Curr | ent | 3 kW Model | Voltage | Current | | |
| DCS 8-125E | 0-8 | 0-125 | DCS 8-140E | | 0-8 | 0-140 |) | DCS 8-350E | 0-8 | 0-350 | | |
| DCS 10-100E | 0-10 | 0-100 | DCS 10-120E | | 0-10 | 0-120 |) | DCS 12-250E | 0-12 | 0-250 | | |
| DCS 20-50E | 0-20 | 0-50 | DCS 20-60E | | 0-20 | 0-60 | | DCS 20-150E | 0-20 | 0-150 | | |
| DCS 33-33E | 0-33 | 0-33 | DCS 33-36E | | 0-33 | 0-36 | | DCS 40-75E | 0-40 | 0-75 | | |
| DCS 40-25E | 0-40 | 0-25 | DCS 40-30E | | 0-40 | 0-30 | | DCS 55-55E | 0-55 | 0-55 | | |
| DCS 50-20E | 0-50 | 0-20 | DCS 50-24E | | 0-50 0-24 | | | DCS 60-50E | 0-60 | 0-50 | | |
| DCS 60-18E | 0-60 | 0-18 | DCS 60-20E | 0-60 0- | | 0-20 | | DCS 80-37E | 0-80 | 0-37 | | |
| DCS 80-13E | 0-80 | 0-13 | DCS 80-15E | 0-80 0- | | 0-15 | | DCS 150-20E | 0-150 | 0-20 | | |
| DCS 100-10E | 0-100 | 0-10 | DCS 100-12E | | 0-100 | 0-12 | | | | | | |
| DCS 150-7E | 0-150 | 0-7 | DCS 150-8E | | 0-150 0-8 | | | | | | | |
| DCS 300-3.5E | 0-300 | 0-3.5 | DCS 300-4E | | 0-300 | 0-4 | | | | | | |
| DCS 600-1.7E | 0-600 | 0-1.7 | | | | | | | | | | |
| Modified Operatio | n Curve for DCS | Series 3 kW | | | | | | | | | | |
| Single Phase AC Input Rated Current 2.5kW Current Voltage | | | | | | | | | | | | |

Voltage

1–3 kW

| Environmental | | | | | | | | | |
|---------------------------|---|---------------------------|---------------------------------|---|-------------------|---|--------|--|--|
| Operating Temperature | 0°C to 50°C (no derating) | | | | | | | | |
| Storage Temperature | -55°C to 85°C | | | | | | | | |
| Humidity (Non-condensing) | 0 to 85% RH | | | | | | | | |
| Physical | 1kW | 1.2kW | | | 3kW | | | | |
| Dimensions | Width: 19" (483mm) Height: 1.72" (43mm) - 1 Depth: 17.52" (445mm) | U | Width: 1 Height: Depth: 1 | 19″ (483 mm) 1.72″ (43 mm) - 1U 17.52″ (445 mm) | | Width: 19" (483 mm) Height: 3.46" (87 mm) - 2U Depth: 17.52" (445 mm) | | | |
| Weight | 19 lbs. (8.6 kg) | | 19 lbs. (| 8.6 kg) | 33 lbs. (15 kg) | | | | |
| Shipping Weight | 24 lbs. (10.9 kg) | | | 10.9 kg) | | 42 lbs. (19 kg) | | | |
| | F | Programming Accuracy Read | | | | | | | |
| Model | M130 | / M131 / M9C / | M85 0 | ptions | | | | | |
| | Voltage 0.1%+ | Current 0.1 | %+ | OVP 0.5%+ | Volt | Current 0.1%+ | | | |
| | | DCS Ser | ries 1 kV | V | | | | | |
| DCS 8-125E | 8mV | 500mA | | 44mV | | 12mV | 500mA | | |
| DCS 10-100E | 10mV | 400mA | | 55mV | | 15mV | 400mA | | |
| DCS 20-50E | 20mV | 200mA | | 110mV | | 30mV | 200mA | | |
| DCS 33-33E | 33mV | 132mA | | 182mV | | 50mV | 132mA | | |
| DCS 40-25E | 40mV | 100mA | | 220mV | | 60mV | 100mA | | |
| DCS 50-20E | 50mV | 80mA | | 275mV | | 75mV | 80mA | | |
| DCS 60-18E | 60mV | 72mA | | 330mV | 90mV | | 72mA | | |
| DCS 80-13E | 80mV | 52mA | | 440mV | | 120mV | 52mA | | |
| DCS 100-10E | 100mV | 40mA | 550mV | | 150mV | | 40mA | | |
| DCS 150-7E | 150mV | 28mA | 825mV | | 225mV | | 28mA | | |
| DCS 300-3.5E | 300mV | 14mA | | 1650mV | 450mV | | 14mA | | |
| DCS 600-1.7E | 600mV | 6.8mA | | 3300mV | | 900mV | 7mA | | |
| | | DCS Seri | es 1.2 k | W | | | | | |
| DCS 8-140E | 8mV | 560mA | | 44mV | | 12mV | 560mA | | |
| DCS 10-120E | 10mV | 480mA | | 55mV | 15mV | | 480mA | | |
| DCS 20-60E | 20mV | 240mA | | 110mV | | 30mV | 240mA | | |
| DCS 33-36E | 33mV | 144mA | | 182mV | | 50mV | 144mA | | |
| DCS 40-30E | 40mV | 120mA | 220mV | | 60mV | | 120mA | | |
| DCS 50-24E | 50mV | 96mA | 275mV | | 75mV | | 96mA | | |
| DCS 60-20E | 60mV | 80mA | 330mV | | 90mV | | 80mA | | |
| DCS 80-15E | 80mV | 60mA | 440mV | | 120mV | | 60mA | | |
| DCS 100-12E | 100mV | 48mA | | 550mV | | 150mV | 48mA | | |
| DCS 150-8E | 150mV | 32mA | 825mV | | 225mV | | 32mA | | |
| DCS 300-4E | 300mV | 16mA | 1650mV | | 450mV | | 16mA | | |
| DCS Series 3 kW | | | | | | | | | |
| DCS 8-350E | 8mV | 1400mA | | 44mV | 12mV | | 1400mA | | |
| DCS 12-250E | 12mV | 1000mA | | 66mV | 18mV | | 1000mA | | |
| DCS 20-150E | 20mV | 600mA | | 110mV | | 30mV | 600mA | | |
| DCS 40-75E | 40mV | 300mA | | 220mV | 60mV | | 300mA | | |
| DCS 55-55E | 55mV | 220mA | | 303mV | 83mV | | 220mA | | |
| DCS 60-50E | 60mV | 200mA | | 330mV | 90mV | | 200mA | | |
| DCS 80-37E | 80mV | 148mA | | 440mV | | 120mV | 148mA | | |
| DCS 150-20E | 150mV | 80mA | | 825mV | 225mV | | 80mA | | |

| | Output Power | | | Cons | Constant Voltage Mode* | | | | Programming Constants Voltage Mode | |
|---|----------------|--------------------------|--|-------------------------|------------------------|---|--|------------------------------------|---------------------------------------|-------------------|
| Model | Voltage VDC | Current ADC@ 50 °C | Combined Regulation Line and Load % | Ripple (rms)** mV | Noise (p-p) mV | Transient Response Time μs (Typ) | Temp. Coeff. Voltage% /°C (Typ) | Voltage Drift %Vmax (Typ) | Ohms / V | v/v |
| DCS Series 1 kW | | | | | | | | | | |
| DCS 8-125E | 0-8 | 0-125 | 0.2 | 4 | 60 | 500 | 0.02 | 0.05 | 625 | |
| DCS 10-100E | 0-10 | 0-100 | 0.2 | 4 | 60 | 500 | 0.02 | 0.05 | 500 | |
| DCS 20-50E | 0-20 | 0-50 | 0.2 | 4 | 60 | 500 | 0.02 | 0.05 | 250 | 1 |
| DCS 33-33E | 0-33 | 0-33 | 0.2 | 4 | 60 | 500 | 0.02 | 0.05 | 151.5 | |
| DCS 40-25E | 0-40 | 0-25 | 0.2 | 4 | 60 | 500 | 0.02 | 0.05 | 125 | 0-100 = 0-100% |
| DCS 50-20E | 0-50 | 0-20 | 0.2 | 4 | 60 | 500 | 0.02 | 0.05 | 100 | V. |
| DCS 60-18E | 0-60 | 0-18 | 0.2 | 4 | 60 | 500 | 0.02 | 0.05 | 83 | or 0-5V = |
| DCS 80-13E | 0-80 | 0-13 | 0.2 | 4 | 60 | 500 | 0.02 | 0.05 | 62.5 | 0-100% |
| DCS 100-10E | 0-100 | 0-10 | 0.2 | 6 | 60 | 500 | 0.02 | 0.05 | 50 | V o |
| DCS 150-7E | 0-150 | 0-7 | 0.2 | 12 | 160 | 500 | 0.02 | 0.05 | 33.3 | |
| DCS 300-3.5E | 0-300 | 0-3.5 | 0.2 | 20 | 200 | 500 | 0.02 | 0.05 | 16.67 | |
| DCS 600-1.7E | 0-600 | 0-1.7 | 0.2 | 50 | 300 | 500 | 0.02 | 0.05 | 8.33 | |
| DCS Series 1.2 kW | | | | | | | | | | |
| DCS 8-140E | 0-8 | 0-140 | 0.2 | 5 | 60 | 500 | 0.02 | 0.05 | 625 | |
| DCS 10-120E | 0-10 | 0-120 | 0.2 | 5 | 60 | 500 | 0.02 | 0.05 | 500 | |
| DCS 20-60E | 0-20 | 0-60 | 0.2 | 5 | 60 | 500 | 0.02 | 0.05 | 250 | |
| DCS 33-36E | 0-33 | 0-36 | 0.2 | 5 | 60 | 500 | 0.02 | 0.05 | 151.5 | 0-10V = |
| DCS 40-30E | 0-40 | 0-30 | 0.2 | 5 | 60 | 500 | 0.02 | 0.05 | 125 | 0-100% Vo |
| DCS 50-24E | 0-50 | 0-24 | 0.2 | 5 | 60 | 500 | 0.02 | 0.05 | 100 | or |
| DCS 60-20E | 0-60 | 0-20 | 0.2 | 5 | 60 | 500 | 0.02 | 0.05 | 83 | 0-5V = 0-100% |
| DCS 80-15E | 0-80 | 0-15 | 0.2 | 5 | 60 | 500 | 0.02 | 0.05 | 62.5 | V _o |
| DCS 100-12E | 0-100 | 0-12 | 0.2 | 10 | 60 | 500 | 0.02 | 0.05 | 50 | |
| DCS 150-8E | 0-150 | 0-8 | 0.2 | 15 | 160 | 500 | 0.02 | 0.05 | 33.3 | |
| DCS 300-4E | 0-300 | 0-4 | 0.2 | 25 | 200 | 500 | 0.02 | 0.05 | 16.67 | |
| | | | DCS | Series 3 kV | V | | | | | |
| DCS 8-350E | 0-8 | 0-350 | 0.2 | 15 | 100 | 1000 | 0.02 | 0.05 | 625 | |
| DCS 12-250E | 0-12 | 0-250 | 0.2 | 10 | 100 | 1000 | 0.02 | 0.05 | 416.7 | 0.101/ |
| DCS 20-150E | 0-20 | 0-150 | 0.2 | 10 | 100 | 1000 | 0.02 | 0.05 | 250 | 0-10V = 0-100% |
| DCS 40-75E | 0-40 | 0-75 | 0.2 | 20 | 100 | 1000 | 0.02 | 0.05 | 125 | V _o |
| DCS 55-55E | 0-55 | 0-55 | 0.2 | 20 | 100 | 1000 | 0.02 | 0.05 | 90.9 | 0-5V = |
| DCS 60-50E | 0-60 | 0-50 | 0.2 | 20 | 100 | 1000 | 0.02 | 0.05 | 83 | 0-100% |
| DCS 80-37E | 0-80 | 0-37 | 0.2 | 20 | 100 | 1000 | 0.02 | 0.05 | 62.5 | V o |
| DCS 150-20E | 0-150 | 0-20 | 0.2 | 30 | 200 | 1000 | 0.02 | 0.05 | 33.3 | |
| * Typical resolution is 0.02% ** rms ripple | typical from 2 | 0 Hz to 300 k | Hz | | | | | | | |

1–3 kW

| | Constant Current Mode* | | | | Progran Cu | nming Constants, rrent Mode | | | |
|---|---|----------------------|---|--|---------------|--------------------------------|------------------------|--|--|
| Model | Regulation Line and Load% Combined | Ripple (rms)** mA | Temperature Coefficient %/°C (Typ.) | Current Drift %I out Max. (Typ.) | Ohms/A | V/A | Efficiency % (Typ.) | | |
| DCS Series 1 kW | | | | | | | | | |
| DCS 8-125E | 0.2 | 160 | 0.03 | 0.05 | 40 | | 82 | | |
| DCS 10-100E | 0.2 | 128 | 0.03 | 0.05 | 50 | | 82 | | |
| DCS 20-50E | 0.2 | 25 | 0.03 | 0.05 | 100 | | 82 | | |
| DCS 33-33E | 0.2 | 10 | 0.03 | 0.05 | 151.5 | | 84 | | |
| DCS 40-25E | 0.2 | 7 | 0.03 | 0.05 | 200 | | 84 | | |
| DCS 50-20E | 0.2 | 7 | 0.03 | 0.05 | 250 | 0-10V = 0-100% I₀ | 84 | | |
| DCS 60-18E | 0.2 | 6 | 0.03 | 0.05 | 277.8 | 0-5V = 0-100% lo | 86 | | |
| DCS 80-13E | 0.2 | 4 | 0.03 | 0.05 | 384.6 | | 86 | | |
| DCS 100-10E | 0.2 | 3 | 0.03 | 0.05 | 500 | | 86 | | |
| DCS 150-7E | 0.2 | 2 | 0.03 | 0.05 | 714.3 | | 86 | | |
| DCS 300-3.5E | 0.2 | 1 | 0.03 | 0.05 | 1428.6 | | 86 | | |
| DCS 600-1.7E | 0.2 | 1 | 0.03 | 0.05 | 2941.2 | | 86 | | |
| DCS Series 1.2 kW | | | | | | | | | |
| DCS 8-140E | 0.2 | 180 | 0.03 | 0.05 | 35.7 | _ | 82 | | |
| DCS 10-120E | 0.2 | 153 | 0.03 | 0.05 | 41.7 | | 82 | | |
| DCS 20-60E | 0.2 | 30 | 0.03 | 0.05 | 83.3 | | 82 | | |
| DCS 33-36E | 0.2 | 11 | 0.03 | 0.05 | 138.9 | | 84 | | |
| DCS 40-30E | 0.2 | 9 | 0.03 | 0.05 | 166.7 | 0-10/ - 0-100% - | 84 | | |
| DCS 50-24E | 0.2 | 8.5 | 0.03 | 0.05 | 208.3 | or | 84 | | |
| DCS 60-20E | 0.2 | 6.6 | 0.03 | 0.05 | 250.0 | 0-5V = 0-100% Ⅰ₀ | 85 | | |
| DCS 80-15E | 0.2 | 6 | 0.03 | 0.05 | 333.3 | | 85 | | |
| DCS 100-12E | 0.2 | 3.6 | 0.03 | 0.05 | 416.7 | | 85 | | |
| DCS 150-8E | 0.2 | 2.3 | 0.03 | 0.05 | 625.0 | | 85 | | |
| DCS 300-4E | 0.2 | 1.2 | 0.03 | 0.05 | 1250.0 | | 85 | | |
| | | | DCS Serie | s 3 kW | | | | | |
| DCS 8-350E | 0.2 | | 0.03 | 0.05 | | | 82 | | |
| DCS 12-250E | 0.2 | | 0.03 | 0.05 | | | 82 | | |
| DCS 20-150E | 0.2 | | 0.03 | 0.05 | | | 82 | | |
| DCS 40-75E | 0.2 | | 0.03 | 0.05 | | 0-10V = 0-100% Io | 86 | | |
| DCS 55-55E | 0.2 | | 0.03 | 0.05 | | or 0-5V = 0-100% l。 | 82 | | |
| DCS 60-50E | 0.2 | | 0.03 | 0.05 | | 1 | 86 | | |
| DCS 80-37E | 0.2 | | 0.03 | 0.05 | | 1 | 86 | | |
| DCS 150-20E | 0.2 | | 0.03 | 0.05 | | 1 | 86 | | |
| * Typical resolution is 0.02% ** rms ripple typical from 20 Hz to 300 kHz | | | | | | | | | |

DCS Series : Diagram



| J3 Connector | | | |
|--------------|--------------------------------|----|---------------------------------|
| 1 | 90-250 VAC Remote Shutdown | 14 | TTL Shutdown |
| 2 | Shutdown Return | 15 | +12 VDC |
| 3 | OVP Program | 16 | 1 mA Current Source (OVP) |
| 4 | Remote/Local Status Indicator | 17 | OVP Indicator |
| 5 | Mode Status Indicator | 18 | Thermal S/DN Status |
| 6 | Ground | 19 | 0-5V Voltage Monitor |
| 7 | 0-5V Current Monitor | 20 | Remote Voltage Select |
| 8 | Voltage Control | 21 | 1 mA Current Source (V) |
| 9 | Voltage Program Input | 22 | 1 mA Current Source (I) |
| 10 | Current Program Unit | 23 | Remote Current Select |
| 11 | Current Control | 24 | Return |
| 12 | Return Sense | 25 | POS Output (8-100V Models Only) |
| 13 | POS Sense (8-100V Models Only) | | |

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DCS Series

| Series $\frac{DCS}{DCS} = \frac{20}{1000} = \frac{50E}{10000} = \frac{(MXX)}{00000000000000000000000000000000000$ | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| | Voltage Current | | | | | | | |
| Options and Accessories | | | | | | | | |
| M1 | Factory configured for 115 VAC input (1 kW and 1.2 kW units only) | | | | | | | |
| М9С | Internal IEEE-488/RS-232 Interface (can only support 12-bit slaves) | | | | | | | |
| M13 | Locking shafts (front panel potentiometers) | | | | | | | |
| M32 | Master/slave paralleling cable configured for two units | | | | | | | |
| M33 | Replace input connector with terminal block (3 kW only) | | | | | | | |
| M51A | Isolated analog programming control of V/I/OVP and isolated V/I monitor outputs up to 500V relative to the supply's return line. This isolation allows users to control power supplies not connected to a common ground. In addition, in systems with high ambient noise or with large ground loop currents the control ground can be isolated from the power ground eliminating problems. | | | | | | | |
| M85 | 12-bit slave interface option for use with M9 or M130 master (3 ft. control cable included) | | | | | | | |
| M102 | Front panel binding posts for 1 kW or 1.2 kW, Models \leq 30A, \leq 100V. Not compatible with M9C, M85, M130, M131, M133, M135, M136 | | | | | | | |
| M130 | LXI™compliant 10/100 Base T Ethernet remote control master interface; includes web server for direct control of power supply via web browser (MS Internet Explorer 6.0 or later) | | | | | | | |
| M131 | 16-bit slave interface option for use with a M130 master (3 ft. control cable included) | | | | | | | |
| M133 | Output disconnect and polarity reversal relays controlled via SCPI commands. Limited to 1kW or 1.2 kW, <100V, <60A | | | | | | | |
| M135 | M130 & M133 combination. Limited to 1kW or 1.2 kW, <100V, <60A | | | | | | | |
| M136 | M131 & M133 combination. Limited to 1kW or 1.2 kW, ≤100V, ≤60A | | | | | | | |
| 105-300-26 | Rack slide kit (3 kW only) | | | | | | | |
| Software | | | | | | | | |
| | | | | | | | | |

IVI-Com and Labview drivers available for free download at http://www.elgar.com/products/DCS/DCS_Downloads.htm

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| Notes | |
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Honest advice, just a phone call away.

If we don't have a particular item, rather than hiring you something that won't do the job, we would rather direct you to an alternative supplier. You will always be provided with full instructions and if you still need help, call our technical team on Nationwide Low Call 0333 6000 600. Our aim is to save you time, frustration and money.

Top quality equipment from major manufacturers.

With Inlec you'll get the most accurate, reliable and wellmaintained equipment available. Prices are regularly reviewed to ensure you always enjoy the best value for money. We have made a significant investment in test equipment so we ensure that it's well packed to minimise damage and delay.

We really do listen to you.

You won't waste your time contacting Inlec. Every request for equipment is logged and carefully considered. Listening to our customers helps keep our product range up to date and relevant. If you are unhappy about any aspect of our service please let us know so we can put it right.

YOUR 5 WAY GUARANTEE

GUARANTEE SAME DAY DESPATCH

We understand why prompt delivery is important to you. So, if we confirm your order before 3pm, you are guaranteed same day despatch.

2 OUR PRICE GUARANTEE

Inlec guarantee you real value for money. Our price match policy is simple - if you can hire the same product for less elsewhere, we guarantee to match that price and reduce it by a further 10% of the difference - and still deliver our industry leading technical and customer support.

For full details check our price-match guarantee online

O TOP QUALITY GUARANTEED

All equipment is thoroughly checked prior to dispatch to ensure you receive it in full, safe working order. Your shipment will be securely packed and include manufacturer's instructions, accessories or consumables and a valid calibration certificate where appropriate. In addition, Inlec offer a 24 hour replacement service if you decide the equipment is not suitable for your application*.

FRIENDLY, KNOWLEDGEABLE ADVICE GUARANTEED

Inlec are happy to provide you with free advice, from anunbeatable team of experienced, knowledgeable and friendly engineers and hire experts.

S YOUR GUARANTEE OF THE BEST CUSTOMER SERVICE

Throughout your hire we will work hard to ensure you enjoy the very best in support and service from Inlec. We guarantee you won't find better service anywhere in the industry.

*subject to availability and conditions

Europe's leading Test Equipment Hire Specialist



Nationwide Low Call 0333 6000 600 Online: www.inlec.com Inlec UK Ellerbeck Way, Stokesley Business Park, Stokesley N Yorkshire TS9 5JZ United Kingdom



