High Efficiency / Smaller Package

Due to less waste heat, the cost burden for air conditioning equipment is lower.

Small bottom area means enhanced flexibility to install.

Due to Hybrid Power Control, DP series drive a wide range of load with very low noise.

Controlling the inrush current of the motor and transformer by the limiter, the exceeding current reduced. So the extra power capacity is not needed.

At the test of the inverter with PFC reactor, DP420LS/DP480LS can absorb instantaneous reverse power flow without external resistance.

Due to the input and output terminal at each phase, Less wiring required.

Variable speed fan work flexibly.

Large scale grid-tied inverter test

Power solution for EMC chamber and Open-Air test sites

AC test power for large scale equipment / EMC testing

Large scale air conditioning systems, Chillers, Medical system, Printing equipment, Semiconductor fab equipment, SMT placement equipment, Elevator/Escalator and Industrial robot
**Power solution for EMC chamber and Open-Air test sites**

The best power solution for measuring conductive noise. Due to a low noise output, the background noise is almost same as the ambient signal as just the measurement equipment working.

**Radiated emissions**

![Graph showing CISPR 22 Class B (10 m) Limits and Actual measured value (Peak)]

**Noise terminal voltage**

![Graph showing CISPR 14-1 Limits (QP) and Actual measured value (Average)]

**Major specifications and Functions**

- **Power capacity:**
  - DP420LS: Single-phase 42 kVA
  - DP480LS: Single-phase 48 kVA
- **AC / DC mode:**
  - AC, AC + DC, DC (Single-phase only)
- **Output voltage and frequency**
  - Voltage: 0 V to 155 V
  - Frequency: AC: 40 Hz to 550 Hz, AC+DC: 1 Hz to 550 Hz
- **Maximum current:**
  - (100V range / 200V range)
  - DP420LS: 420 A / 210 A
  - DP480LS: 480 A / 240 A
- **Maximum peak current:**
  - Peak value (Apk) which is three times the maximum current
- **Short reverse power flow:**
  - Less than 100 % of Maximum current (RMS)
  - (reverse power flow time ≤ 20 ms, discontinuous, less than 40 °C)
- **Fluctuation with output current:**
  - Within ± 0.15 V / ± 0.30 V
  - (In the case that the output current is changed from 0 % to 100 % of the maximum current. DC or 45 Hz to 65 Hz.)
- **Distortion of output voltage waveform:**
  - 0.5 % or lower (40 Hz to 550 Hz)
- **Power input:**
  - Voltage 200 V ± 15 % (Three-phase three wire), Frequency 50 Hz ± 2 Hz or 60 Hz ± 2 Hz, Power factor 0.90 or higher (typ.), Efficiency 77 % or higher (typ.), Maximum power consumption DP420LS: 63 kVA or lower, DP480LS: 72 kVA or lower
- **Measurement function:**
  - RMS / peak / average values of the output voltage / current, current peak-hold values, active / apparent / reactive power, the power factor, the crest factor, and harmonic current (40th max.), synchronization frequency
- **Variable current limiter:**
  - Effective value, positive/negative peak value
- **Remote Sensing, AGC (Automatic Gain Control), Auto (Output Voltage Compensation)**
- **Sequence function, Voltage fluctuation testing function, clipped sine wave, arbitrary waveform**
- **Power Unit Enegarization Setting**
- **External Control I/O:**
  - Used to control Voltage Dip simulator and Reference impedance network
- **External Interface:**
  - Standard: RS-232, USB  
  - Selectable: GPIB or LAN
- **Control Software included by default:**
  - Enables control of basic parameters for output via a PC, including data logging, and creating/editing of sequence, simulation and arbitrary waveforms.
- **Dimensions:**
  - 1365 (W) × 1580 (H) × 803 (D) mm
- **Weight:**
  - DP420LS: 600 kg approx.
  - DP480LS: 650 kg approx.

**Lineup for High Power Applications**

- **NEW DP240S**
  - Single-phase 24 kVA
- **NEW DP360S**
  - Single-phase 36 kVA
- **Contact us for detailed specifications.**

**Lineup for High Power Applications**

- **DP240S**
  - Single-phase 24 kVA
  - Poly-phase system: Configure Single-phase three-wire by two products, Configure Three-phase four-wire by three products
- **DP360S**
  - Single-phase 36 kVA
  - Poly-phase system: Configure Single-phase three-wire by two products, Configure Three-phase four-wire by three products

**For specific details, contact us.**

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*Note: The contents of this catalog are current as of October 10, 2017
Product appearance and specifications are subject to change without notice.
Before purchase, contact us to confirm the latest specifications, price and delivery date.*