Programmable AC Power Source

Hybrid Power Control

High Robustness  Low Noise  Low Distortion

DP series supports a variety of tests regardless of the loads.

Line-up

<table>
<thead>
<tr>
<th>Model</th>
<th>3 kVA</th>
<th>4.5 kVA</th>
<th>6 kVA</th>
<th>7.5 kVA</th>
<th>9 kVA</th>
<th>10.5 kVA</th>
<th>12 kVA</th>
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<tr>
<td>DP030KSC</td>
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Features

- AC/DC mode: AC, AC+DC, DC
- Output Voltage and Frequency
  
<table>
<thead>
<tr>
<th>Mode</th>
<th>Output Voltage</th>
<th>Frequency</th>
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</thead>
<tbody>
<tr>
<td>AC</td>
<td>0 V to 160 V</td>
<td>0 Hz to 550 Hz</td>
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<tr>
<td>DC</td>
<td>0 V to 227 V</td>
<td>0 Hz to 550 Hz</td>
</tr>
</tbody>
</table>

- Output Voltage Stability (Fluctuation with output current):
  Within ±0.15 V (75 V to 150 V) / within ±0.30 V (150 V to 300 V)
  (DC and 45 Hz to 65 Hz, in the case that the output current is changed from 0% to 100% of the maximum current.)

- Maximum Peak Current: Peak value (Apk) which is four times of the maximum current
  (For the capacitor input type rectified load (crest factor=4))

- Distortion of Output Voltage Waveform: 0.5% or lower
- Measurement Functions
  Voltage (RMS value, DC average value, peak value), Current (RMS value, DC average value, peak value, peak hold value), Power (active power, apparent power, reactive power), Harmonic current (up to 40th order), Load power factor, Crest factor, Sync frequency, CO₂ emissions
- Current Limiter Function (Positive/negative peak current value and RMS current value)
- Protection Function
- Remote Sensing, AGC (Automatic Gain Control), Autocal (Output Voltage Compensation)
- External Signal Input (SYNC, VCA, EXT, ADD)
- Interfaces, External Control I/O
- Power Input
  DP030KSC: Single-phase 100 V to 230 V
  Other than DP030KSC: Single-phase 100V to 230V or Three-phase, three-wire 200V to 220V or Three-phase, four-wire 380V

NF Corporation
All models are standard equipped with simulation functions and control software.

**Sequences**
Parameters such as frequency, voltage and time can be programmed and sequentially output. Settings are made using the panel, remote controller (sold separately) or included control software. Long, complex output patterns can be easily programmed using this software.

- **Number of steps**: max. 255 (for each sequence)
- **Parameter**: step time, output range, AC/DC mode, DC voltage, AC phase, voltage, frequency, waveform, start phase, stop phase, step termination, jump count, etc.
- **Sequence control**: start, stop, hold, resume, branch 1, branch 2
- **Number of memories**: 5 (non-volatile)

**Simulation**
Simulates a problem in the power AC line such as blackout, voltage rise, voltage drop, abrupt phase changes, or abrupt frequency change, thereby enabling all types of AC line simulation such as prototype evaluation and product inspection. Settings are made with the panel, remote controller or included control software.

- **Number of steps**: 6 (Initial, Normal 1, Trans 1, Abnormal, Trans 2, Normal 2)
- **Parameter**: step time, output range, AC voltage, frequency, start phase, stop phase, trigger output, etc.
- **Waveform**: sine wave
- **Number of memories**: 5 (non-volatile)

**Clipped sine wave**
The peak clipped sine wave can be output. Setting can be done using the crest factor (CF) or clip rate (percent of the peak value).

- **CF setting range**: 1.10 to 1.41
- **RMS value correction**
- **Clip ratio setting range**: 40.0% to 100.0%
- **Number of memories**: 3 (non-volatile)

**Arbitrary waveform**
Arbitrary waveform output is possible. The arbitrary waveforms can be easily created using the included control software, and can be saved in the internal unit memory via an external interface or USB memory.

- **Amplitude resolution**: 16 bit
- **Waveform length**: 4096 words
- **Number of memories**: 16 (non-volatile)

Software is included for easy creation and editing of data.

**Control software**
Enables control of basic parameters for output via a PC, including data logging, creating/editing of sequences and simulations.

*Note: The contents of this catalog are current as of June 2, 2019. Product appearance and specifications are subject to change without notice. Before purchase, contact us to confirm the latest specifications, price and delivery date.*