# 6RL Series

U | I | P | R | OVP | OCP | OPP
OTP | | | | 19" | MS | USB

PPST SOLUTIONS

# Regenerative DC Loads

DC Power

| 6RL Series |
|---|
| 3.1kW to 1920kW |
| Energy Recycling |
| Up to 2000Vdc, 1000A |
| 4U Rack Height @ 30kW |

***KEY BENEFITS OF 6RL REGENERATIVE DC LOADS***

- Three phase 208~480Vac universal input voltage
- Energy recovery of the supplied DC energy into the local grid reduces utility bills and air conditioning costs
- Galvanically isolated DC input
- Input power ratings: up to 15 kW per unit for 208V grid models and up to 30 kW per unit for 480V grid models
- Parallel operation up to 1920 kW
- Input voltages: up to 2000 V
- Input currents: up to 1000 A per unit
- FPGA based digital control
- Large color TFT touch panel display
- User profiles, true function generator
- Galvanically isolated analog and USB interface
- USB port on the front for USB memory stick
- USB interface standard, LAN I/F standard on 30kW models
- Optional, digital, plug & play interfaces
- SCPI command set and ModBus support

***Regenerative DC Loads*** like the 6RL Series are excellent for the environment as they produce little or no heat. They also save money by sending the energy sent into the load back on the AC power grid. For many test requirements like full load burn-in, this can save a significant amount in terms of reduced utility bills, often resulting in quick financial payback of the capital invested in the electronic loads. It also reduces HVAC cost as no cooling of the test room is required.

With a wide range of available power levels and input voltage ranges, the 6RL Series of regenerative DC Loads are an excellent choice for many DC test applications. Single chassis power up to 30kW and 2000V input.

Master/ Slave mode for series or parallel operation available for higher voltage and or power requirements.

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Worldwide Supplier of Power Conversion Equipment

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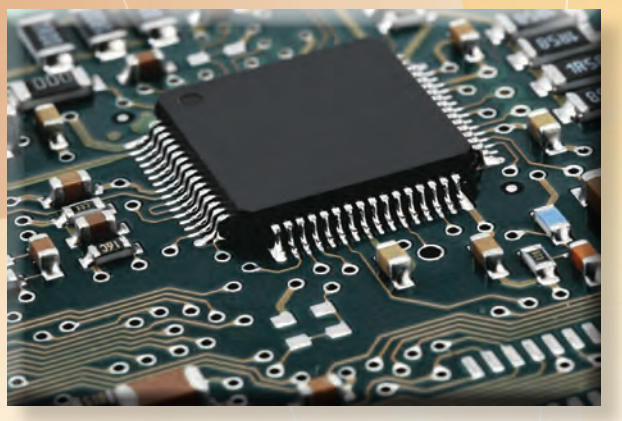
USB UNIVERSAL SERIAL BUS | RS232 | LAN | GPIB

## VALUE & PERFORMANCE BY LEVERAGING MODERN TECHNOLOGY

The 6RL Series of regenerative DC Electronic Loads uses state of the art field programmable logic array (FPGA) technology to implement a digital power conversion topology that combines high efficiency with a rich feature set and excellent specifications. This results in 16-bit resolution precision for both set points and measurements throughout.

Packaged in a compact, standard 19" rack mount chassis, these powerful functions are easily accessible through an easy to use, color touch screen based user interface from the front panel or by sending commands over one of several available digital control interfaces.



## BROAD RANGE OF APPLICATIONS

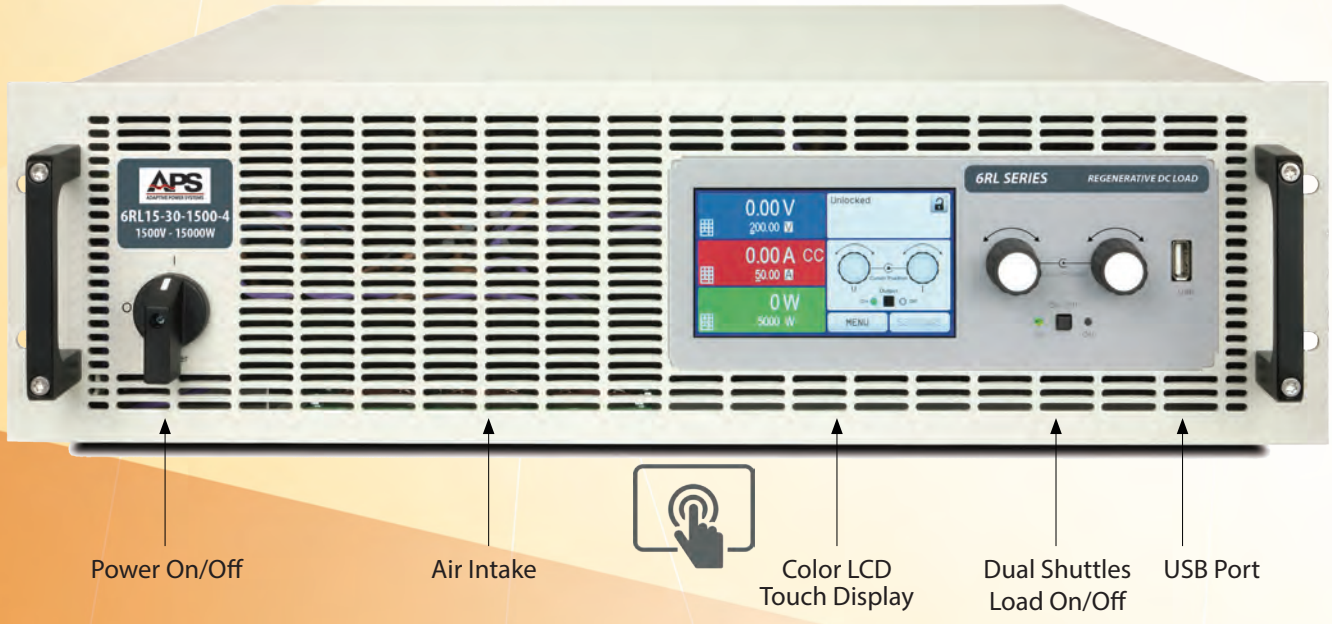
The energy efficient operation of the 6RL loads makes them suitable for a broad range of DC power applications where loading of power supplies or discharging of batteries involves high amounts of energy. This is typically the case in Power Supply test and Electric Vehicles power conversion and battery test applications.

*Power Supply Test & Burn-in*

*Electric Vehicle Component Test*

*Research & Development*

## MODERN COLOR TOUCH USER INTERFACE FOR EASE OF OPERATION




All 6RL Series models share an intuitive user interface using a combination of a large color LCD touch screen and two rotary shuttle knobs. This results in an easy to use electronic load for novice and experienced users alike.

The large color LCD allows visualization of output settings and configurations as well as a wide assortment of precision DC measurements.

Changing parameters such as voltage or current can be done using the touch screen or the shuttle.

## VALUE PROPOSITION

### General

The 6LR Series of electronic DC loads offer all the features and function of a conventional DC load but rather than dissipating the absorbed energy as heat, it recovers 95% of this energy back to the mains instead.

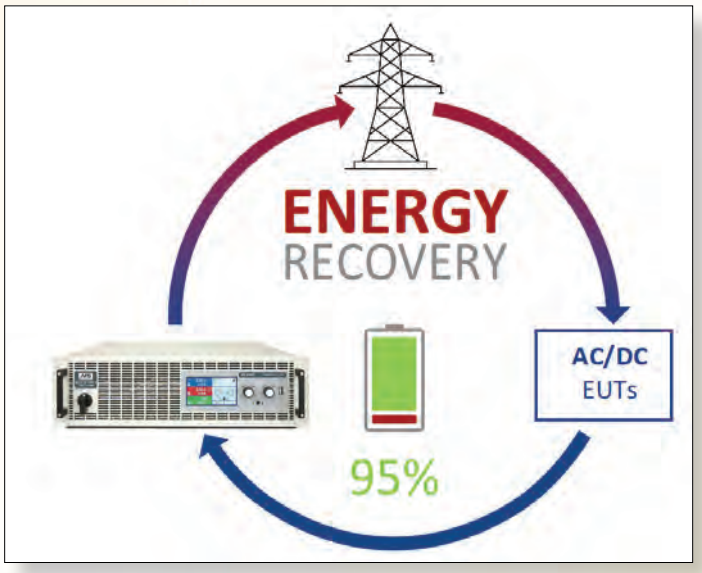
The energy recovery function converts the supplied DC energy into a synchronous sine current and feeds it back into the local grid, eliminating the usual heat dissipation to a minimum and saving energy costs at the same time. The large color TFT touch panel offers a different and intuitive kind of manual operation, compared to most electronic loads on the market today.

### Power ratings, voltages, currents

The available input voltage ranges from models with 0~80 V DC input up to 0~2000 V DC. Input currents up to 1000 A are available on two models. The series offers several power classes of 3.1kW, 5kW, 6.2kW, 9.3KW, 10kW or 15kW in only 3U rack space or 30kW in 4U rack space. Higher power requirements can be met using parallelizing multiple loads up to 960kW in cabinets for a significantly high total current.

### Grid Connection

All models require a 3-phase Delta mains supply connection (no Neutral conductor). The loads are available for either a 208 Vac Grid or a 380~480 Vac connections.

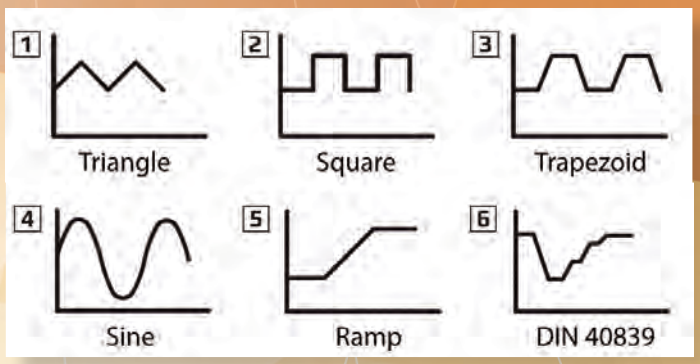



### Energy recovery

A key feature of these electronic loads is the use of the AC input grid connection for recovery of the received DC energy from the unit under test. It is converted with an efficiency of up to 95%. Recycling energy recovery helps to lower energy costs and avoids expensive cooling systems as required for conventional electronic or resistive loads which convert the DC input energy into heat.

### Function generator

A built-in digital function and arbitrary waveform generator allows for the control and execution of user-programmable load profiles and can generate sine, square, saw tooth and ramp functions in an arbitrary order.




With a programmable value table of 3276 points, the load can simulate non-linear internal resistances, such as those of batteries or LED strings.

### Battery test

Battery test modes for various battery types, such as constant current or constant resistance discharging are supported. This mode displays values for elapsed testing time and consumed capacity (Ah). Adjustable under voltage threshold and maximum test period settings are supported to prevent over-discharge.

### Master-slave Configurations

All models feature a digital master-slave bus. It can be used to connect up to 32 identical models in parallel operation to a bigger system. The configuration of the master-slave system is done from the control panels of the units or by remote control. System control is accomplished by manual or remote control. As an alternative to the standard models, there are specific slave models available.

### Share Bus

The Share Bus is an analog connection used to balance current across multiple similar loads in a parallel connection. It can also be used to create a two-quadrant system with DCS Series power supplies. Such a system supports source-sink capability for battery cycling.

### Power Grid Monitoring

6RL loads feature a switch-off function in case of an interruption of the grid connection. The load constantly monitors its AC input voltage and frequency and will automatically switch off the power stages in case upper or lower limits are exceeded.

## TECHNICAL SPECIFICATIONS 5KW (3KW) Models

| MODEL | 6RL170-80HP[3] | 6RL70-200HP | 6RL40-360HP | 6RL30-500HP | 6RL20-750HP |
|---|---|---|---|---|---|
| Voltage Range | 0~80 V | 0~200 V | 0~360 V | 0~500 V | 0~750 V |
| Current Range | 0...170 A | 0...70 A | 0...40 A | 0...30 A | 0...20 A |
| CP V-I Range | 29.4V@170A ~ 80V@62.5A | 71.4V@70A ~ 200V@25A | 125V@40A ~ 360V@13.9A | 166.7V@30A ~ 500V@10A | 250V@20A ~ 750V@6.7A |
| Voltage Ripple | <100 mVpp <10 mVrms | <300 mVpp <40 mVrms | <320mVpp <55mVrms | <350mVpp <70mVrms | <800mVpp <200mVrms |
| $U_{Min}$ for $I_{Max}$ (Sink) | < 0.5 V | < 2.0 V | < 2.0 V | < 2.2 V | < 2.2 V |
| Insulation -DC to PE | ±600 Vdc | ±1000 Vdc | ±1000 Vdc | ±1500 Vdc | ±1500 Vdc |
| Insulation +DC to PE | +600 Vdc | +1000 Vdc | +1000 Vdc | +2000 Vdc | +2000 Vdc |
| Power Range[4] | 0~5000 W / 0~3000 W | 0~5000 W / 0~3000 W | 0~5000 W / 0~3000 W | 0~5000 W / 0~3000 W | 0~5000 W / 0~3000 W |
| Resistance Range | 0.016~26 Ω | 0.1~160 Ω | 0.3~520 Ω | 0.6~1000 Ω | 1.2~2200 Ω |
| Output Capacitance | 7790 µF | 2520 µF | 393 µF | 180 µF | 180 µF |
| Efficiency | 94.5% | 94.5% | 95.5% | 95.5% | 95.5% |
| Weight | 18kg/39.7lbs | 18kg/39.7lbs | 18kg/39.7lbs | 18kg/39.7lbs | 18kg/39.7lbs |

## TECHNICAL SPECIFICATIONS 10KW (6KW) Models

| MODEL | 6RL340-80HP[3] | 6RL140-200HP | 6RL80-360HP | 6RL60-500HP | 6RL40-750HP | 6RL30-1000HP | 6RL20-1500HP |
|---|---|---|---|---|---|---|---|
| Voltage Range | 0~80 V | 0~200 V | 0~360 V | 0~500 V | 0~750 V | 0~1000 V | 0~1500 V |
| Current Range | 0...340 A | 0...140 A | 0~80 A | 0~60 A | 0~40 A | 0~30 A | 0~20 A |
| CP V-I Range | 29.4V@340A ~ 80V@125A | 71.4V@140A ~ 200V@50A | 125V@80A ~ 360V@27.8A | 166.7V@60A ~ 500V@20A | 250V@40A ~ 750V@13.3A | 333.3V@30A ~ 1000V@10A | 500V@20A ~ 1500V@6.7A |
| Voltage Ripple | <100mVpp <10mVrms | <300mVpp <40mVrms | <320mVpp <55mVrms | <350mVpp <70mVrms | <800mVpp <200mVrms | <1000mVpp <200mVrms | <2000mVpp <400mVrms |
| $U_{Min}$ for $I_{Max}$ (Sink) | < 0.5 V | < 2.0 V | < 2.0 V | < 2.2 V | < 2.2 V | < 4.0 V | < 4.0 V |
| Insulation -DC to PE | ±600 Vdc | ±1000 Vdc | ±1000 Vdc | ±1500 Vdc | ±1500 Vdc | ±1500 Vdc | ±1500 Vdc |
| Insulation +DC to PE | +600 Vdc | +1000 Vdc | +1000 Vdc | +2000 Vdc | +2000 Vdc | +2000 Vdc | +2000 Vdc |
| Power Range[4] | 0~10000 W / 0~6000 W | 0~10000 W / 0~6000 W | 0~10000 W / 0~6000 W | 0~10000 W / 0~6000 W | 0~10000 W / 0~6000 W | 0~10000 W / 0~6000 W | 0~10000 W / 0~6000 W |
| Resistance Range | 0.008~13 Ω | 0.05~80 Ω | 0.15~260 Ω | 0.3~500 Ω | 0.6~1100 Ω | 1.2~2200 Ω | 2.6~4500 Ω |
| Output Capacitance | 15980 µF | 5040 µF | 786 µF | 360 µF | 360 µF | 90 µF | 90 µF |
| Efficiency | 94.5% | 94.5% | 95.5% | 95.5% | 95.5% | 95.5% | 95.5% |
| Weight | 25kg/55.1lbs | 25kg/55.1lbs | 25kg/55.1lbs | 25kg/55.1lbs | 25kg/55.1lbs | 25kg/55.1lbs | 25kg/55.1lbs |

## TECHNICAL SPECIFICATIONS 15KW (9KW) Models

| MODEL | 6RL510-80HP[3] | 6RL210-200HP | 6RL120-360HP | 6RL90-500HP | 6RL60-750HP | 6RL40-1000HP | 6RL30-1500HP | 6RL20-2000HP |
|---|---|---|---|---|---|---|---|---|
| Voltage Range | 0~80 V | 0~200 V | 0~360 V | 0~500 V | 0~750 V | 0~1000 V | 0~1500 V | 0~2000 V |
| Current Range | 0~510 A | 0~210 A | 0~120 A | 0~90 A | 0~60 A | 0~40 A | 0~30 A | 0~20 A |
| CP V-I Range | 29.4V@510A ~ 80V@187.5A | 71.4V@210A ~ 200V@75A | 125V@120A ~ 360V@41.7A | 166.7V@90A ~ 500V@30A | 250V@60A ~ 750V@20A | 375V@40A ~ 1000V@15A | 500V@30A ~ 1500V@10A | 500V@30A ~ 1500V@10A |
| Voltage Ripple | <100mVpp <10mVrms | <300mVpp <40mVrms | <320mVpp <55mVrms | <350mVpp <70mVrms | <800mVpp <200mVrms | <1600mVpp <300mVrms | <2400mVpp <400mVrms | <2400mVpp <400mVrms |
| $U_{Min}$ for $I_{Max}$ (Sink) | < 0.5 V | < 2.0 V | < 2.0 V | < 2.2 V | < 2.2 V | < 5.2 V | < 5.2 V | < 5.2 V |
| Insulation -DC to PE | ±600 Vdc | ±1000 Vdc | ±1000 Vdc | ±1500 Vdc | ±1500 Vdc | ±1500 Vdc | ±1500 Vdc | ±1500 Vdc |
| Insulation +DC to PE | +600 Vdc | +1000 Vdc | +1000 Vdc | +2000 Vdc | +2000 Vdc | +2000 Vdc | +2000 Vdc | +2000 Vdc |
| Power Range[4] | 0~15000 W / 0~9000 W | 0~15000 W / 0~9000 W | 0~15000 W / 0~9000 W | 0~15000 W / 0~9000 W | 0~15000 W / 0~9000 W | 0~15000 W / 0~9000 W | 0~15000 W / 0~9000 W | 0~15000 W / 0~9000 W |
| Resistance Range | 0.02~25 Ω | 0.033~50 Ω | 0.1~180 Ω | 0.16~340 Ω | 0.4~740 Ω | 0.8~1300 Ω | 2.5~3000 Ω | 3.5~5300 Ω |
| Output Capacitance | 23970 µF | 7560 µF | 1179 µF | 540 µF | 540 µF | 131 µF | 60 µF | 60 µF |
| Efficiency | 94.5% | 94.5% | 95.5% | 95.5% | 95.5% | 95.5% | 95.5% | 95.5% |
| Weight | 31kg/68.3lbs | 31kg/68.3lbs | 30kg/66.1lbs | 31kg/68.3lbs | 31kg/68.3lbs | 31kg/68.3lbs | 31kg/68.3lbs | 31kg/68.3lbs |

**Note 1:** Ripple RMS value is measured at LF with BWL 300 kHz, Ripple PP value is measured at HF with BWL 20MHz
**Note 2:** Weight of the base version, models with option(s) may vary
**Note 3:** A 60V model 6RL60-xxxHP is available as well with same max current rating. All other specs same as 6RL80-xxxHP 80V model
**Note 4:** Power rating shown applies with 380Vac ~ 480Vac Input Voltage applied. For 208Vac input, max. power is 60% of rated power.

## TECHNICAL SPECIFICATIONS 30KW Models

| MODEL | 6RL1000-80HP[3] | 6RL420-200HP | 6RL240-360HP | 6RL180-500HP |
|---|---|---|---|---|
| Voltage Range | 0~80 V | 0~200 V | 0~360 V | 0~500 V |
| Current Range | 0~1000 A | 0~420 A | 0~240 A | 0~180 A |
| CP V-I Range | 30V@1000A ~ 80V@375A | 71.4V@420A ~ 200V@150A | 125V@240A ~ 360V@83.3A | 166.7V@180A ~ 500V@60A |
| Voltage Ripple[1] | <480mVpp<br><37mVrms | <450mVpp<br><60mVrms | <480mVpp<br><83mVrms | <525mVpp<br><105mVrms |
| Insulation -DC to PE | ±500 Vdc | ±800 Vdc | ±1500 Vdc | ±1500 Vdc |
| Insulation +DC to PE | +600 Vdc | +1000 Vdc | +2000 Vdc | +2000 Vdc |
| Power Range[4] | 0~30000 W (0~18000 W) | 0~30000 W (0~18000 W) | 0~30000 W (0~18000 W) | 0~30000 W (0~18000 W) |
| Efficiency | 94.0% | 94.2% | 94.6% | 95.3% |
| Weight[2] | 50kg/110lbs | 50kg/110lbs | 50kg/110lbs | 50kg/110lbs |

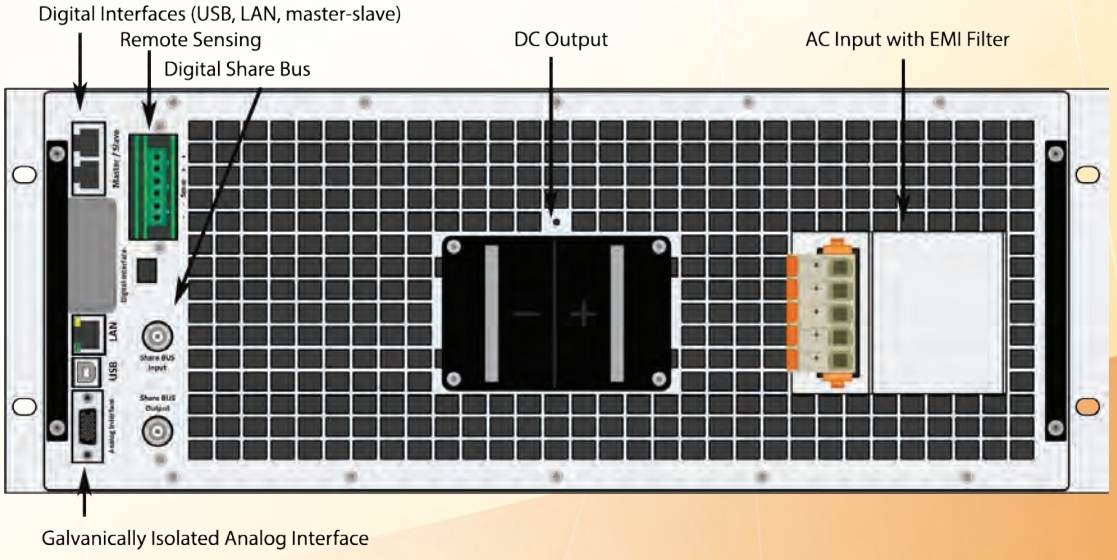
## TECHNICAL SPECIFICATIONS 30KW Models continued

| MODEL | 6RL120-750HP | 6RL80-1000HP | 6RL60-1500HP | 6RL40-2000HP |
|---|---|---|---|---|
| Voltage Range | 0~750 V | 0~1000 V | 0~1500 V | 0~2000 V |
| Current Range | 0~120 A | 0~80 A | 0~60 A | 0~40 A |
| CP V-I Range | 250V@120A ~ 750V@40A | 375V@80A ~ 1000V@30A | 500V@60A ~ 1500V@20A | 750V@40A ~ 2000V@15A |
| Voltage Ripple[1] | <1200mVpp<br><300mVrms | <2400mVpp<br><450mVrms | <3600mVpp<br><600mVrms | <3600mVpp<br><600mVrms |
| Insulation -DC to PE | ±1500 Vdc | ±1500 Vdc | ±1500 Vdc | ±1500 Vdc |
| Insulation +DC to PE | +2000 Vdc | +2000 Vdc | +2000 Vdc | +2000 Vdc |
| Power Range[4] | 0~30000 W (0~18000 W) | 0~30000 W (0~18000 W) | 0~30000 W (0~18000 W) | 0~30000 W (0~18000 W) |
| Efficiency | 95.5% | 94.6% | 95.3% | 95.5% |
| Weight[2] | 50kg/110lbs | 50kg/110lbs | 50kg/110lbs | 50kg/110lbs |

**Note 1:** Ripple RMS value is measured at LF with BWL 300 kHz, Ripple PP value is measured at HF with BWL 20MHz
**Note 2:** Weight of the base version, models with option(s) may vary
**Note 3:** A 60V model 6RL60-1000HP is available as well with same max current of 360A. All other specs same as 6RL80-1000HP 80V model
**Note 4:** Power rating shown applies with 380Vac ~ 480Vac Input Voltage applied. No 208Vac input version for 30kW models are available.

## REAR PANEL CONNECTIONS 4U MODELS

All power input and output connectors as well as interfaces are located on the rear panel of the power supply. This supports rack mounting of the power supplies in ATE systems as all internal cabinet wiring routes to the back of the unit and leaves the front panel display and controls accessible from the front. The illustration below shows the various connector locations on the rear panel.



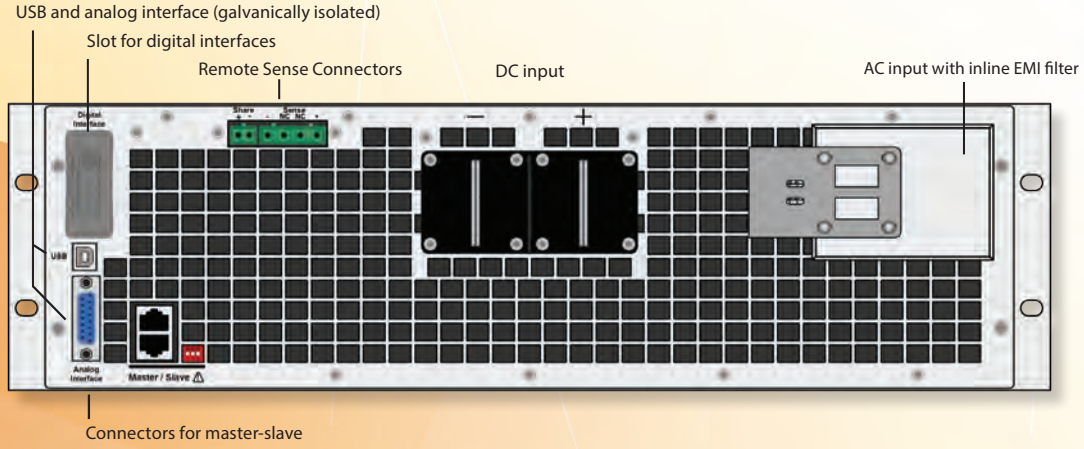
## TECHNICAL SPECIFICATIONS

| MODEL | All Models |
|---|---|
| **AC Input** | |
| 3U Models<br>4U Models | 208$V_{LL}$ ~ 480$V_{LL}$ ±10%, 3ph<br>380$V_{LL}$~ 480$V_{LL}$ ±10%, 3ph |
| Frequency | 45~66 Hz |
| **DC Voltage Mode** | |
| Accuracy | 3U Models: < 0.3% F.S.<br>4U Models: < 0.05% F.S. |
| Load regulation CV | 3U Models: < 0.15% F.S.<br>4U Models: < 0.05% F.S. |
| Line regulation CV & CC ±10% line change | 3U Models: < 0.05% F.S.<br>4U Models: < 0.01% F.S. |
| Stability CV | < 30 ppm / °C (after 30 mins warm-up) |
| **DC Current Mode** | |
| Accuracy | 3U Models: < 0.4% F.S.<br>4U Models: < 0.1% F.S. |
| Load regulation 0-100% ΔVdc | 3U Models: < 0.15% F.S.<br>4U Models: < 0.05% F.S. |
| Slew Rate 10~90% | < 300 µsec |
| **DC Power Mode** | |
| Accuracy | 3U Models: < 1.5% of F.S.<br>4U Models: < 0.3% of F.S. |
| **Resistance Mode** | |
| Accuracy | 3U Models: ≤ 1% of max. resistance + 0.3% of rated current<br>4U Models: ≤ 0.3% of max. resistance + 0.1% of rated current |
| **Protection** | OT, OVP, OCP, OPP, PF |
| **Parallel Operation** | Master-slave, up to 32 units |
| **Regulatory Standards 3U Models** | EN 60950:2006 + A11:2009 + A1:2010 + A12:2011 + AC:2011 + A2:2013<br>EN 61000-6-3:2011-09, EN 61000-6-4:2011-09 Radiation Class B<br>EN 50160:2011-02 Grid Class 2 |
| **Regulatory Standards 4U Models** | EN 61010-1:2011-07<br>EN 61000-6-3:2011-09, EN 61000-6-2:2016-05 Radiation Class B<br>EN 50160:2011-02 Grid Class 2 |
| **Dimensions (W x H x D)** | |
| 480Vac Input 3U Models | 19" x 5.25" x 669 x 26.4"<br>483 x 133 x 670 mm |
| 4U Models | 19" x 7" x 669 x 26.4"<br>483 x 178 x 670 mm |

| MODEL | | All Models | |
|---|---|---|---|
| **Environmental** | | | |
| Pollution Degree | | 2 | |
| Protection Class | | 1 | |
| Cooling | | Forced air, temperature controlled fans | |
| Temperature | Operating | 0~50 °C / 32~122 °F | |
| | Storage | -20~70 °C / -4~158 °F | |
| Relative humidity | | <80%, non-condensing | |
| Altitude | Operating | <2000 m (1.242 mi) | |
| **Front Panel** | | | |
| Display | | Color Touch Screen Graphics LCD | |
| Controls | | Dual Rotary Digital Encoders | |
| Output on/off | | Push Button | |
| **Digital Interfaces** | | | |
| Standard - Front Panel | | 1x USB type A | |
| 3U Models Std, Rear Panel | | 1x USB type B for communication | |
| 4U Models Std - Rear Panel | | 1x USB type B, 1x Ethernet for communication | |
| Interface Slot | | 1x for retrofittable plug-in modules | |
| Master / Slave Bus (Rear Panel) | | 2x RJ45 | |
| Share Bus (Rear Panel) | | 3U Models: Terminals<br>4U Models: 2x BNC | |
| **Analog Interfaces** | | | |
| Internal | | Built-in, 15 pole D-Sub (female), galvanically isolated | |
| Signal range | | 0~5 V or 0~10 V (selectable) | |
| Inputs | | V, I, P, R, remote control on-off, DC input on-off, resistance mode on-off | |
| Outputs | | V, I, overvoltage, alarms, reference voltage | |
| Accuracy V / I / P / R | | 0~10 V: < 0.2% | 0~5 V: < 0.4% |

## REAR PANEL CONNECTIONS 3U MODELS

All grid power input and DC Load input connectors as well as interfaces are located on the rear panel of the load. This supports rack mounting of the unit in ATE systems as all internal cabinet wiring routes to the back of the unit and leaves the front panel display and controls accessible from the front. The illustration below shows the various connector locations on the rear panel.



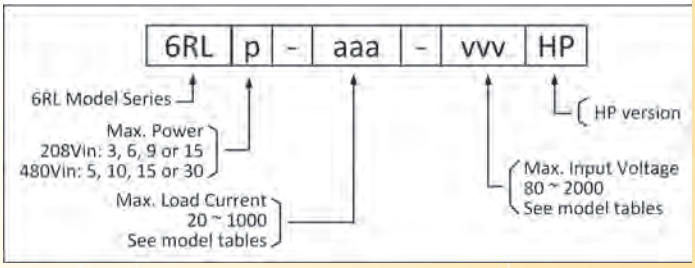
## ORDERING INFORMATION

### 208~480Vac 3 PHASE GRID CONNECTION MODELS

| 5KW MODELS | DESCRIPTION | 208~480V AC 3ø INPUT | RACK HEIGHT |
|---|---|---|---|
| 6RL5-170-80HP | DC Regenerative Load, 5000W, 0-80V, 0-170A | Power derating @ 208Vac input | 3U |
| 6RL5-70-200HP | DC Regenerative Load, 5000W, 0-200V, 0-70A | | |
| 6RL5-40-360HP | DC Regenerative Load, 5000W, 0-360V, 0-40A | | |
| 6RL5-30-500HP | DC Regenerative Load, 5000W, 0-500V, 0-30A | | |
| 6RL5-20-750HP | DC Regenerative Load, 5000W, 0-750V, 0-20A | | |
| **10KW MODELS** | **DESCRIPTION** | **208~480V AC 3ø INPUT** | **RACK HEIGHT** |
| 6RL10-340-80HP | DC Regenerative Load, 10000W, 0-80V, 0-340A | Power derating @ 208Vac input | 3U |
| 6RL10-140-200HP | DC Regenerative Load, 10000W, 0-200V, 0-140A | | |
| 6RL10-80-360HP | DC Regenerative Load, 10000W, 0-360V, 0-80A | | |
| 6RL10-60-500HP | DC Regenerative Load, 10000W, 0-500V, 0-60A | | |
| 6RL10-40-750HP | DC Regenerative Load, 10000W, 0-750V, 0-40A | | |
| 6RL10-40-1000HP | DC Regenerative Load, 10000W, 0-1000V, 0-30A | | |
| 6RL10-40-1500HP | DC Regenerative Load, 10000W, 0-1500V, 0-20A | | |
| **15KW MODELS** | **DESCRIPTION** | **208~480V AC 3ø INPUT** | **RACK HEIGHT** |
| 6RL15-510-80HP | DC Regenerative Load, 15000W, 0-80V, 0-510A | Power derating @ 208Vac input | 3U |
| 6RL15-210-200HP | DC Regenerative Load, 15000W, 0-200V, 0-210A | | |
| 6RL15-120-360HP | DC Regenerative Load, 15000W, 0-360V, 0-120A | | |
| 6RL15-90-500HP | DC Regenerative Load, 15000W, 0-500V, 0-90A | | |
| 6RL15-60-750HP | DC Regenerative Load, 15000W, 0-750V, 0-60A | | |
| 6RL15-40-1000HP | DC Regenerative Load, 15000W, 0-1000V, 0-40A | | |
| 6RL15-30-1500HP | DC Regenerative Load, 15000W, 0-1500V, 0-30A | | |
| 6RL15-20-2000HP | DC Regenerative Load, 15000W, 0-2000V, 0-20A | | |
| **30KW MODELS** | **DESCRIPTION** | **208~480V AC 3ø INPUT** | **RACK HEIGHT** |
| 6RL30-1000-80HP | DC Regenerative Load, 30000W, 0-80V, 0-1000A | Power derating @ 208Vac input | 4U |
| 6RL30-420-200HP | DC Regenerative Load, 30000W, 0-200V, 0-420A | | |
| 6RL30-240-360HP | DC Regenerative Load, 30000W, 0-360V, 0-240A | | |
| 6RL30-180-500HP | DC Regenerative Load, 30000W, 0-500V, 0-180A | | |
| 6RL30-120-750HP | DC Regenerative Load, 30000W, 0-750V, 0-120A | | |
| 6RL30-80-1000HP | DC Regenerative Load, 30000W, 0-1000V, 0-80A | | |
| 6RL30-60-1500HP | DC Regenerative Load, 30000W, 0-1500V, 0-60A | | |
| 6RL30-40-2000HP | DC Regenerative Load, 30000W, 0-2000V, 0-40A | | |

### Model Number Encoder

Use the encoder shown below to configure the correct regenerative DC load model.




## OPTIONS

| OPTIONS | DESCRIPTION | OPTIONS | DESCRIPTION |
|---|---|---|---|
| OPT-232 | RS232 Serial Interface | OPT-ETH2P | Ethernet/IP 2 Port Interface |
| OPT-PBUS | Profibus DPV1- Interface | OPT-PNET1P | Profinet-IO 1 Port Interface |
| OPT-CANO | CANopen Interface | OPT-PNET2P | Profinet-IO 2 Port Interface |
| OPT-DNET | DeviceNet Interface | OPT-CAN | CAN Interface |
| OPT-MBUS1P | Modbus-TCP 1 Port Interface | OPT-ECT | EhterCAT Interface |
| OPT-MBUS2P | Modbus-TCP 2 Port Interface | Opt-RCT | Redundant Contactors |
| OPT-ETH1P | Ethernet/IP 1 Port Interface (Standard on 4U, 30kW Models) | | |

*30000 W Models, 2000V Max.*

*3100 W Models, 750V Max.*

*6200 W Models, 1000V Max.*

*9300 W Models, 1500V Max.*

*5000 W Models, 750V Max.*

*10000 W Models, 750V Max.*

*15000 W Models 2000V Max.*

## Service and Support

Adaptive Power Systems' customer support is second to none. Our Customer Support Program provides the training, repair, calibration, and technical support services that our customers value. So, in addition to receiving the right test equipment, our customers can also count on excellent support before, during and after the sale. With company owned support and service centers around the world, support is never far away.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