

# CURRENT POWER

## 24 to 32.5 Volt NATO Mobile DC Power Unit MSR Series

Solid State Design converts utility power to DC Voltage



### The most versatile highest quality converter available

Current Power LLC is a world leader in the design and manufacturing of the best 28VDC on the market. Close attention to detail in every step of the manufacturing process has led us to build the most reliable and best looking equipment in the industry. All of our models are built to high quality standards requirements without skimping on conductive materials and transformer sizing yielding the best voltage holding capability in the industry during aircraft starts. The units are designed around the users with easy to read volt and amp meters. They also include a safe and easy way to set the maximum current limit using a push button without the use of fancy controls, which are prone to failure from weather and abuse. Uses feel at ease with assurance that the voltage will be maintained and the current delivered during.



MIL-SPEC NATO Receptacle (11674728)



50 feet long, (2/0 Gage) High Flex

**CURRENT POWER LLC**  
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# 28.5 Volt Mobile DC Power Unit MSR Series 650 Amp

## STANDARD FEATURES

- Heavy duty indoor/outdoor IP54 enclosure with baked powder coated finish.



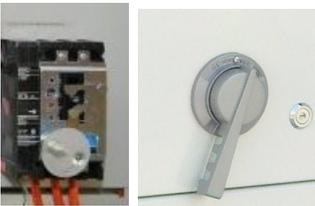
- Four 9" (22cm) non-marking wheels with foot brakes provide a safe stable design. Featuring resistance to chemicals, water and steam; maximum weatherability and low temperature flexibility; they reject floor debris.

- Cable / handlebar with welded gusset for strong, safe and easy movement from either side; allows 9" of neat and simple to use cable storage.



- Output NATO SLAVE CABLE: SBORD102C on each end of the cable, 50 feet long, cable size (Gage) 2/0, High Flex cable with the two wires bonded together. Wires are Red & black

- Input Voltage is reconnectable for any voltage from 208V to 575V, 3phase, 50 or 60 hertz. The GPU can field adjust for any hangar voltage worldwide.



- AC line disconnect with industrial grade circuit breaker and through door actuator; equipped with Lockout and Tag-out for safety.

- Thermal protection for transformer and semiconductors.

- Recessed control panel with high intensity LED status lights.



- **Optional\*** Convenient 15 amp receptacle with weather proof cover for lights, drills or any 115 volt test equipment.

- Exclusive patent pending push-to-set **Smart Current Limit** allows the user to set the exact desired current limit by pushing a button and rotating the current adjustment knob to the preferred current limit. The meter will display your exact setting while the button is held. You can then use the dial lock lever for added protection against accidental movement.

- DC ON/OFF switch electronically controls clean power connection and disconnection



Dial Knob Lock

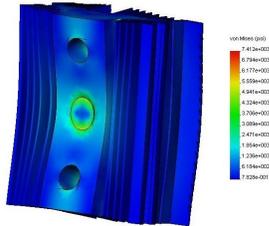
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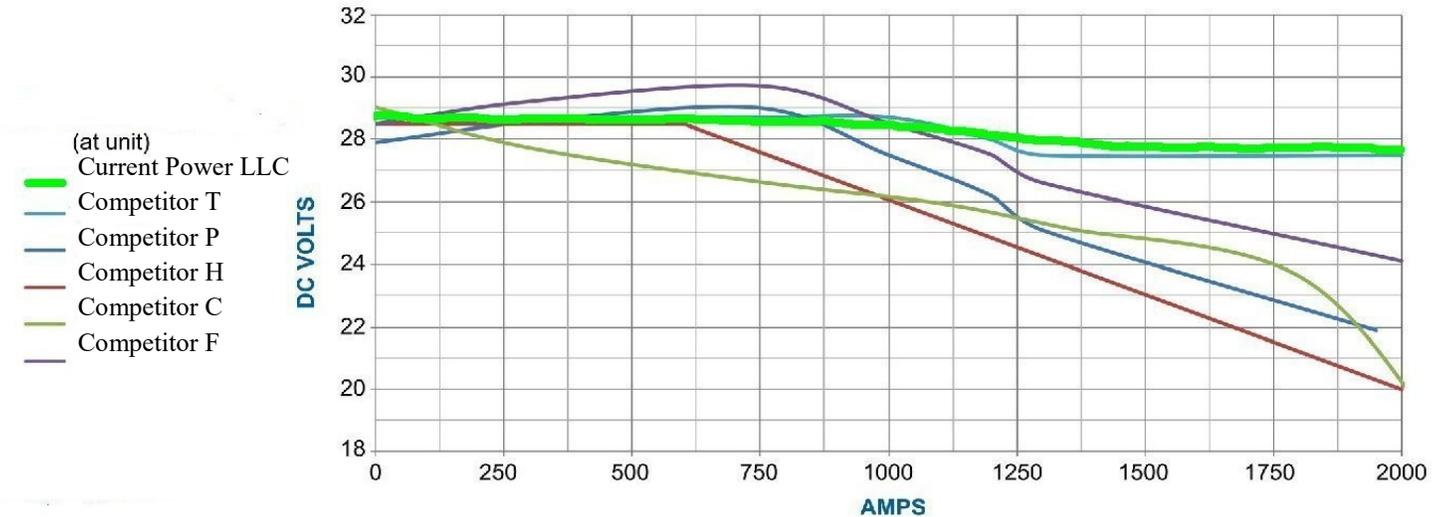
### STANDARD FEATURES (cont)



- Hermetically sealed semiconductors (SCR) for long life in harsh environments.
- Quiet cooling fans are of ball bearing type providing long fan life vs sleeve bearing type.
- Current Power does not skimp on heat-sink or transformer materials. This allows us to reduce the airflow necessary to cool the unit. Our competitors do the opposite; they increase the airflow to force cool smaller components thus saving money. This has the negative effect of higher noise, stressing electrical components and pulling contaminants and moisture into the unit, resulting in a shorten product life
- Current Power uses all the latest simulation software for finite element analyses. Allows for material flex and thermodynamics as shown here. Our aluminum heat sinks with large surface area and high mass provide a high peak for long periods of time compared to our competitors. While running whisper quiet at 58dB at peak current!



**DC Output Chart:** Below is a published DC output graph of current draw (Amp's) VS DC output voltage. Current Power has overlaid our DC output graph to give you a comparison that can help our customers with their buying decisions. As you can see, the Current Power LLC holds the output voltage better than any of our competitors. The chart shown below is for **MSR-600-28-NATO**



# 28.5 Volt Mobile DC Power Unit

## MSR Series 600 Amp

### SPECIFICATIONS

- 2 year warranty
- Input voltage from 208 to 575 VAC 3 Phase 50-60HZ, easily adjusted in the field, with soft start to limit current inrush
- Output voltage adjustment range from 24 to 32 volts DC, Other voltage adjustment ranges available
- Continuous Power rating: 600 amps at 28.5 VDC, Other continuous current ratings available
- Starting current rating: 0 to 2000 amps (peak), Other current ratings available
- One MIL-SPEC NATO receptacle (11674728)
- mounted on Rectifier, Add additional NATO Receptacle (max of 4)
- Smart Current Limit: Visual set and lock desired current limit. \*patent pending push-to-set **Smart Current Limit**
- Meets or exceeds MIL-STD-704 for Power Quality Output
- Voltage regulation 1%
- DC output voltage 2% ripple
- Output current regulation 1%
- Current limit control: True 0 to 100%
- Optional: 115 Vac Convenience receptacle: 15 amp with weatherproof cover
- AC line disconnects with industrial grade circuit breaker and through door actuator; equipped with Lockout and Tagout for safety
- Input Power Monitoring: Input phase loss detection, under voltage
- True overload ratings maintain voltage during peak current
- Hermetically sealed semiconductors with large aluminum heat sinks
- Thermal protection for transformer and semiconductors
- Four 9 inch (22cm) non-marking wheels, two with foot brake
- Heavy duty indoor / outdoor enclosure with baked powder coated finish IP54 enclosure
- Quiet operation 50 dB @ continuous current rating, 58dB at peak current
- Size 30"L x 30"W x 33.5"H without handlebars
- Size 49.5"L x 30"W x 33.5"H with handlebars

### MODELS AVAILABLE

- **MSR-600-28-NATO:** 600 AMPS AT 28.5 VOLTS CONTINUOUS, 2000 AMP PEAK
- **MSR-400-28-NATO:** 400 AMPS AT 28.5 VOLTS CONTINUOUS, 1200 AMP PEAK
- \*We are the manufacturer and can provide custom units upon request, any voltage and current

### OPTIONS

- Additional MIL-SPEC NATO Receptacles mounted on cabinet (max of 4)
- Input cable in any length with or without plug (please specify length and operating voltage)
- 115 Vac Convenience receptacle: 15 amp with weatherproof cover
- Add an additional Aircraft cable with 28.5V oval plug AN225 in any length (please specify length)
- Digital Meter Package
- CE Mark compliance for Europe
- Other ratings and voltages available
- Add an additional DC output for 12 volts systems. With a simple throw of a switch the output voltage is regulates down to 14.8 in limiting output the current to a preset value (300 Amps). To avoid overheating smaller gauge DC output cables.

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