

28.5 Volt Mobile Ground Power Unit (GPU) MSR Series 650 Amp Converts utility power to 28.5 volts DC



The most versatile highest quality GPU on the market today

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 around aircraft 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 and pilots 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. Pilots feel at ease with assurance that the 28.5 volts will be maintained and the current delivered during starting will not exceed aircraft specifications.



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28.5 Volt Mobile Ground Power Unit MSR Series 650 Amp

STANDARD FEATURES

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



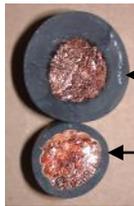
- Four 9" (22cm) non-marking wheels with foot brakes provide a safe stable design. Featuring resistance to chemicals, water and steam; maximum weatherability and low temperature flexibility; they reject floor debris.



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



Molded AN2551 oval plug



Mil spec cable

Std spec cable

- Our 20-foot aircraft cable with molded AN2551 oval plug meets or exceeds military specification: MIL-C-7974D. Includes patent pending head stiffener for longer life. Don't be fooled by non-military grade cable as shown here. Compare the thickness of the outer insulation. Heavy duty 4/0 wire size.



- 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 Tagout for safety.
- Thermal protection for transformer and semiconductors.

- Long Life, high intensity LED status lights.



Recessed Operator Controls

- 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 to aircraft.



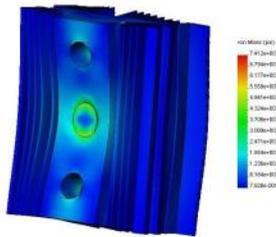
Dial Knob Lock

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STANDARD FEATURES (cont)

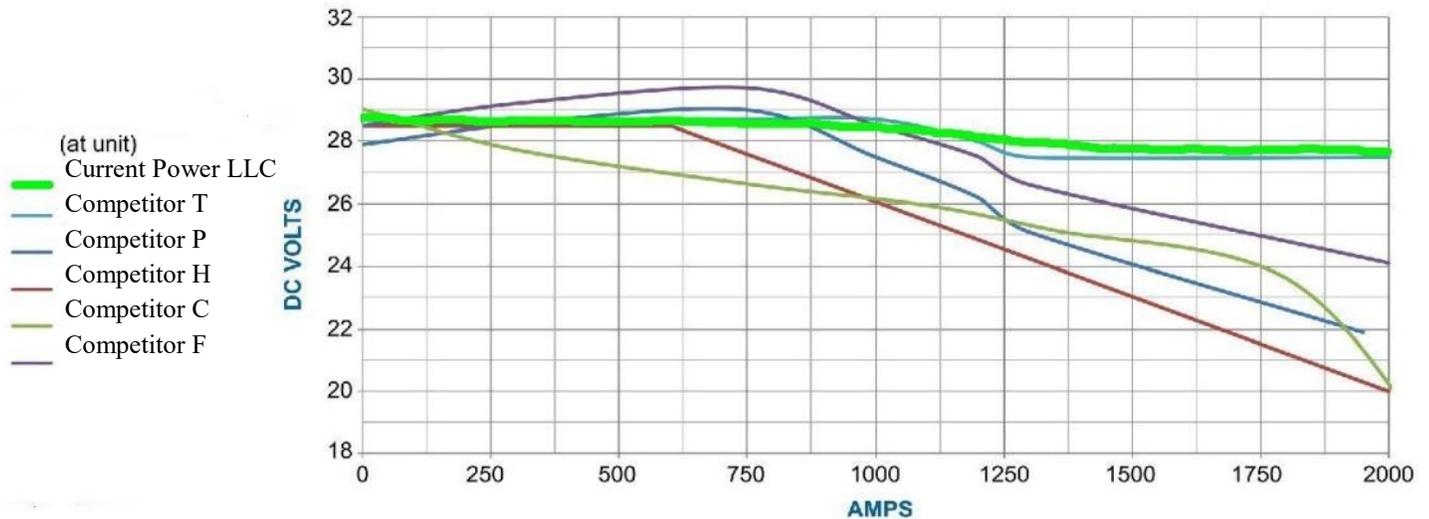


- Hermetically sealed semiconductors (SCR) for long life in harsh environments.
- Cooling fans are ball bearing type vs sleeve bearing type.
- Current Power does not skimp on heat-sink or transformer materials. This allows us to reduce the airflow necessary to cool the GPU. Our competitors do the opposite; 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 GPU.



- Current Power uses all the latest simulation software for finite element analyses. Allows for material flex and thermodynamics as shown here.

DC Output Chart: Below is a published DC output graph of Aircraft current draw (Amp's) VS DC output voltage. Current Power has overlaid our GPU graph to give you a comparison that can help our customers with their buying decisions. As you can see, the Current Power GPU holds the output voltage better than any of our competitors.



Pilot's Edition GPU: We developed the Pilot's Edition while working on a special project with military pilots. Pilots requested that the GPU maintain exactly 28.5 volts at the aircraft and not at the output terminals of the GPU, like all standard GPU's. To accomplish this, we then used this as feedback to our regulator, thus providing exact regulation at the aircraft. But don't be fooled by others with this feature. It requires a lot more than just a special aircraft cable; it requires that the GPU has the extra output voltage capability to make up for the loss of voltage in the cable, which only the Current Power GPU has. This also allows you to utilize a longer aircraft cable on the GPU if needed. The Pilot's Edition has all the features of the standard MSR model plus this remote regulation ability and an extra foot brake to hold the GPU in place even under thrust of an engine.

28.5 Volt Mobile Ground Power Unit

MSR Series 650 Amp

SPECIFICATIONS

- 2 year warranty
- Input voltage from 208 to 575 VAC 3 Phase 50-60HZ, easily adjusted in the field
- Output voltage adjustment range from 24 to 32 volts DC
- Continuous Power rating: 650 amps at 28.5 VDC
- Starting current rating: 0 to 2000 amps
- Smart Current Limit: Visual set and lock desired current limit
- Meets or exceeds MIL-STD-704 for Aircraft Power Quality Output
- Voltage regulation 1%
- DC output voltage 1% ripple
- Output current regulation 1%
- Current limit control: True 0 to 100%
- 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 aircraft voltage during starting
- 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
- Weight: 787 lbs

MODELS

- **MSR-650-28:** 650 AMPS AT 28.5 VOLTS CONTINUOUS, 2000 AMP PEAK

OPTIONS

- Input cable in any length with or without plug (please specify length and operating voltage)
- Aircraft cable with 28.5V oval plug AN225 in any length (please specify length)
- Aircraft cable with 28.5V oval plug AN225 in any length remote voltage sensing (please specify length)
- Digital Meter Package
- CE Mark compliance for Europe
- Pilot's Edition Package includes special features; foot brake, Remote voltage sensing
- Other ratings and voltages available

OTHER MODELS

- **MSR-400-28:** 400 AMPS AT 28.5 VOLTS CONTINUOUS, 1600 AMPS PEAK
- **MSR-600-28-400HZ:** 600 AMPS AT 28.5 VOLTS CONTINUOUS, 2000 AMP PEAK. Input voltage 3 phase, 120/208 400Hz
- **MSR-650-28-PE:** Pilot's Edition Package, 650 AMPS AT 28.5 VOLTS CONTINUOUS, 2000 AMP PEAK. Pilot's Edition Package includes special features: Rugged foot brake, Remote voltage sensing on a 20 foot aircraft cable.

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