



AMPJET®
GROUND POWER UNITS JUST GOT SMARTER



AMPJET REVOLUTIONIZED GROUND POWER UNITS, SETTING A NEW STANDARD IN SIMPLICITY, EASE OF USE AND RUGGEDNESS.

INSIDE HANGAR - AMPJET 90 KVA



AMPJET DESIGNED GROUND POWER UNITS WITH
YOUR MAINTENANCE TEAM IN MIND.

INSIDE HANGAR - AMPJET 28V DC

AMPJET 28 BUILT-IN FEATURES

- Simple “PUSH-A-BUTTON” Start / Stop
- Output Power: 28V DC, 850A
- Alternator: Marathon 284PSL (Brushless, Single Bearing)
- Engine Options: Perkins (Tier 3), Perkins, Deutz & JCB (Tier 4F)
- Protection: Over/Under Voltage, Over/Under Frequency, Overload
- Line Drop Compensation: Automatic
- Fuel Capacity: 124 L (32.75 Gal) / Operating Time Per Tank: 12 hours
- Fuel Type Tier 3: Diesel & Jet A / Tier 4F & Stage 5: Low Sulfur Diesel
- Temperature: -40°F to 125°F (-40°C to +52°C) W/ Extreme Cold Weather Kit Option
- Dimensions L x W x H: 102 x 68 x 67 in. / Weight: 3080 lb.
- Noise Level: 85 dB(A) / High Altitude Performance
- Warranty: 2 Years / 2000 Hours



AMPJET AC BUILT-IN FEATURES

- Simple “PUSH-A-BUTTON” Start / Stop
- Output Power: 60 / 90/ 120 / 140 / 180 kVA, 400 Hz AC
- Alternator Mecc Alte (Brushless, Single Bearing)
- Engine Options: Deutz / Perkins (for Tier 3 and Tier 4F)
- Voltage Regulation: 115V/200V ± 1% / Frequency Regulation: 400 HZ ± 0.5%
- Protection: Over/Under Voltage, Over/Under Frequency, Overload
- Line Drop Compensation: Automatic
- Fuel Capacity: Minimum 8 hours Full Load
- Fuel Type: Tier 3 Diesel & Jet A / Tier 4F & Stage 5 Low Sulfur Diesel
- Temperature: -40°F to 125°F (-40°C to +52°C) W/ Extreme Cold Weather Kit Option
- Dimensions Tier 3 (L x W x H): 136 x 75 x 70 in. & Tier 4F / Stage 5: 136 x 75 x 76 in. (180 KVA is 8" Longer)
- Noise Level: 85 dB(A)
- High Altitude Performance
- Warranty: 2 Years / 2000 Hours



AMPJET 28 V DC OPTIONS AVAILABLE



- Digital Gateway / Telematics (GPS/GSM) (Cell/Network link) (Monitor GPU Track on GPS, Receive Messages / Notifications on Mobile or Email)
- Premium Engine Warning Kit
- Auxiliary Output 115 VAC, 60 Hz
- Galvanized Enclosure
- Stainless Steel Fuel Tank
- Corner Bumpers
- Cable Tray Bumpers
- Cable Tray Rollers
- Foam-Filled Tires
- Low Coolant Shutdown SDS
- Cable-Connected Warning System (Strobe Light)
- Battery Switch (Required with Cable Connected Warning System)
- Fire Extinguisher
- Quick Break Away Output Cable
- Towbar Warning System
- Towbar Lock System
- Torsion (Flexible) Rear Axle
- Aux. Battery with Battery Separator
- Cold Weather Kit (CWK): Tier 3, Tier 4F / Stage 5
- Extreme CWK: Tier 3, Tier 4F / Stage 5
- Custom Engine CWK Kits Available (on request)

AMPJET AC OPTIONS AVAILABLE



- Dual AC Output (2nd AC Output) (except 60 KVA)
- 28 VDC TR (Transformer Rectifier)
- 28 VDC TRU Simultaneous (AC/DC Output)
- 56 VDC TR (Transformer Rectifier)
- Digital Gateway / Telematics (GPS/GSM) (Cell/Network link) (Monitor GPU Track on GPS, Receive Messages / Notifications on Mobile or Email)
- Premium Engine Warning Kit
- Auxiliary Output 115 VAC, 60 Hz
- Galvanized Enclosure
- Stainless Steel Fuel Tank
- Corner Bumpers
- Cable Tray Bumpers
- Cable Tray Rollers
- Foam-Filled Tires
- Low Coolant Shutdown SDS
- Cable-Connected Warning System (Strobe)
- Battery Switch (Required with Cable Connected Warning System)
- Fire Extinguisher
- Towbar Warning System
- Towbar Lock System
- Torsion (Flexible) Rear Axle (90 / 120 / 140 KVA)
- Torsion (Flexible) Rear Axle for 180 KVA is a Feature
- Aux. Battery with Battery Separator
- Cold Weather Kit (CWK): Tier 3, Tier 4F / Stage 5
- Extreme CWK: Tier 3, Tier 4F / Stage 5
- Custom Engine CWK Kits Available (on request)

Ampjet GPU Spec.		AMPJET 28.5 V DC	AMPJET 45/60 KVA	AMPJET 90 KVA	AMPJET 120/140 KVA	AMPJET 180 KVA
Highlighted Features & Specifications						
Output Power		28V DC, 850A	45 / 60 kVA, 400 Hz AC	90 kVA, 400 Hz AC	120 / 140 kVA, 400 Hz AC	180 kVA, 400 Hz AC
Alternator (Brushless, Single Bearing)		Marathon	Mecc Alte	Mecc Alte	Mecc Alte	Mecc Alte
Engine Speed RPM		1800	2000 (1846)	2000 (1846)	2000 (1846)	2000 (1846)
Engine Options	Tier 3	Perkins	Perkins, Deutz	Deutz	Deutz / Perkins	Deutz / Perkins
	Tier 4F/Stage 5	Perkins, Deutz & JCB	Perkins, Deutz & JCB	Perkins, Deutz & JCB		
Voltage Regulation		28.5 V DC	115V/200V ± 1%	115V/200V ± 1%	115V/200V ± 1%	115V/200V ± 1%
Frequency Regulation		✓	400 Hz ± 0.5%	400 Hz ± 0.5%	400 Hz ± 0.5%	400 Hz ± 0.5%
Overload Protection: Over/Under Voltage Over/Under Frequency		✓	✓	✓	✓	✓
Line Drop Compensation		Automatic	Automatic	Automatic	Automatic	Automatic
Cooling		Liquid	Liquid	Liquid	Liquid	Liquid
Fuel Capacity		124 L (32.75 Gal)	124 L (32.75 Gal)	200 L (52.83 Gal)	200 L (52.83 Gal)	268L (70.80 Gal)
Operating Time Per Tank		12 hours	10 hours	10 hours	10 hours (120 KVA) 8 hours (140 KVA)	8 hours
Fuel Type	Tier 3	Diesel / Jet A	Diesel / Jet A	Diesel / Jet A	Diesel / Jet A	Diesel / Jet A
	Tier 4F/Stage 5	Low Sulfur Diesel	Low Sulfur Diesel	Low Sulfur Diesel	Low Sulfur Diesel	Low Sulfur Diesel
Dimensions L x W x H	Tier 3	2.55x1.7x1.68 M 102x68x67 in.	2.97x1.7x1.68 M 117x 68x67 in.	3.15x1.91x 1.78 M 124x75x70 in.	3.45x1.91x1.78 M 136x75x70 in.	3.66x1.91x1.78 M 144x75x70 in.
	Tier 4F/Stage 5				3.45x1.91x1.93 M 136x75x76 in.	3.66x1.91x1.93 M 144x75x76 in.
Weight	Tier 3	1400 KG (3080 lb.)	1500 KG (3300 lb.)	2000 KG (4400 lb.)	2200 KG (4850 lb.)	2400 KG (5300 lb.)
	Tier 4F/Stage 5			2100 KG (4600 lb.)	2350 KG (5150 lb.)	2550 KG (5600 lb.)
Noise Level		85 dB(A)	85 dB(A)	85 dB(A)	85 dB(A)	85 dB(A)
Warranty		2 Years / 2000 Hours	2 Years / 2000 Hours	2 Years / 2000 Hours	3 Years / 2000 Hours	2 Years / 2000 Hours
Temp. (W/ Extreme Cold Weather Kit Option)		-40 to 125°F / -40 to +52°C	-40 to 125°F / -40 to +52°C	-40 to 125°F / -40 to +52°C	-40 to 125°F / -40 to +52°C	-40 to 125°F / -40 to +52°C
High Altitude Performance		✓	✓	✓	✓	✓
Standard Features						
Simple "PUSH-A-BUTTON" Start / Stop		✓	✓	✓	✓	✓
Smart Digital Genset Controller with 5" Color Display		✓	✓	✓	✓	✓
Real-time monitoring of 7 critical parameters		✓	✓	✓	✓	✓
Electrical control panel access		✓	✓	✓	✓	✓
Main Control Panel with Weather Cover		✓	✓	✓	✓	✓
Auto Warm-up, Cool-down & Auto-Sleep		✓	✓	✓	✓	✓
Battery Shut-off Switch		✓	✓	✓	✓	✓
Low Fuel Alarm		✓	✓	✓	✓	✓
Fuel & Visibility Beacons (Amber / Red)		✓	✓	✓	✓	✓
Heavy-duty 14 gauge Sheet Metal Enclosure - Easy Access		✓	✓	✓	✓	✓
Primer - Powder Coated Zinc Primer - All Exterior Sheet Metal		✓	✓	✓	✓	✓
Standard Colors		✓	✓	✓	✓	✓
Top Coating - Powder Coated		✓	✓	✓	✓	✓
Rugged 5/16" Steel Chassis		✓	✓	✓	✓	✓
Steering - Easy Maneuver 5th Wheel		✓	✓	✓	✓	✓
Solid Axle & Pneumatic Tires		✓	✓	✓	✓	✓
Forklift Pockets (8"×4" / 203×102 mm)		-	✓	✓	✓	✓
Sling Hook(s)		Sling Hook(s) - Option	-	-	-	-
4X Extreme-Duty Rubber Engine & Generator Mount Isolators		✓	✓	✓	✓	✓
Hitch - Heavy Duty Lunette Eye		✓	✓	✓	✓	✓
Tie Down Rings - 2 Front / 2 Rear		✓	✓	✓	✓	✓
Rugged 13" deep main frame rails		✓	✓	✓	✓	✓
Wheels - Easy Pull 12" (305mm)		✓	✓	✓	✓	✓
Torsion (Flexible) Rear Axle		Option	Option	Option	✓	✓

Ampjet GPU Spec.	AMPJET 28.5 V DC	AMPJET 45/60 KVA	AMPJET 90 KVA	AMPJET 120/140 KVA	AMPJET 180 KVA
Cable (Select)					
Cable with Connector	▪ 30' 2 X 4/0 MIL-STD-5356-C	▪ 30' 4 X 2/0 MIL-STD-5356-C ▪ 30' 4 X 2/0 W ▪ 30' 2 X 4/0 MIL-STD-5356-C (for DC TR Only)	▪ 30' 4 X 2/0 MIL-STD-5356-C ▪ 30' 4 X 2/0 W ▪ 30' 2 X 4/0 MIL-STD-5356-C (for DC TR Only)	▪ 30' 4 X 2/0 MIL-STD-5356-C ▪ 30' 4 X 2/0 W ▪ 30' 2 X 4/0 MIL-STD-5356-C (for DC TR Only)	▪ 30' 4 X 2/0 MIL-STD-5356-C ▪ 30' 4 X 2/0 W ▪ 30' 2 X 4/0 MIL-STD-5356-C (for DC TR Only)
Quick Breakaway Power Cable w Swivel Base	Option	Option - for DC TR			
Custom Cable Lengths Available	Option	Option	Option	Option	Option
Engine Protection					
Delayed Stop Turbo Protection	✓	✓	✓	✓	✓
Full Application Approval	✓	✓	✓	✓	✓
Over Speed Protection	✓	✓	✓	✓	✓
Full Flow Fuel Filter	✓	✓	✓	✓	✓
Full Flow Lubricating Oil Filter	✓	✓	✓	✓	✓
Muffler	✓	✓	✓	✓	✓
Engine Diagnostics	✓	✓	✓	✓	✓
Engine Preheater	✓	✓	✓	✓	✓
Low Oil Pressure Shut Down Switch (SDS)	✓	✓	✓	✓	✓
High Temp. Water (SDS)	✓	✓	✓	✓	✓
Low Fuel Warning	✓	✓	✓	✓	✓
Safety					
Emergency Stop (E-Stop)	✓	✓	✓	✓	✓
Fire Extinguisher	Option	Option	Option	Option	Option
Visibility Beacon	✓	✓	✓	✓	✓
Corner Reflectors (High-intensity visibility at Night (10X))	✓	✓	✓	✓	✓
4 Corner Marker Lights	✓	✓	✓	✓	✓
Noise Reduction/Sound-suppression foam installed throughout engine compartment	✓	✓	✓	✓	✓
Parking Brake (Tow-bar-activated -Adjustable)	✓	✓	✓	✓	✓
Control System					
Controller Type	Intuitive digital controller with integrated monitoring and diagnostics	Intuitive digital controller with integrated monitoring and diagnostics	Intuitive digital controller with integrated monitoring and diagnostics	Intuitive digital controller with integrated monitoring and diagnostics	Intuitive digital controller with integrated monitoring and diagnostics
User Interface	5" color display providing seven (7) key operating metrics at a glance	5" color display providing seven (7) key operating metrics at a glance	5" color display providing seven (7) key operating metrics at a glance	5" color display providing seven (7) key operating metrics at a glance	5" color display providing seven (7) key operating metrics at a glance
Operation Controls					
Simple "PUSH-A-BUTTON" Start and Stop functions	✓	✓	✓	✓	✓
Main System Power Switch	✓	✓	✓	✓	✓
Warning Beacon and Marker Lights Switch	✓	✓	✓	✓	✓
DC Output Controls	✓	Available with DC option			
AC/DC Selector Switch	-	Available with DC option			
E+F Bypass Switch	-	✓	✓	✓	✓
Current Limiting Switch	✓	DC option only, covered			
Engine Monitoring & Display					
Battery Voltage	✓	✓	✓	✓	✓
Water Temperature	✓	✓	✓	✓	✓
Oil Pressure	✓	✓	✓	✓	✓
Fuel Level	✓	✓	✓	✓	✓
Tachometer (RPM)	✓	✓	✓	✓	✓
Hour Meter	✓	✓	✓	✓	✓

Ampjet GPU Spec.	AMPJET 28.5 V DC	AMPJET 45/60 KVA	AMPJET 90 KVA	AMPJET 120/140 KVA	AMPJET 180 KVA
Power Output Monitoring					
Output Voltage	✓	✓	✓	✓	✓
Frequency	✓	✓	✓	✓	✓
Power (kW/kVA)	✓	✓	✓	✓	✓
DEF (Diesel Exhaust Fluid) Status Indicator	-	-	✓	✓	✓
Diagnostics & Data					
Troubleshooting Display: Active warnings and system fault messages displayed in real time	✓	✓	✓	✓	✓
Wiring Identification: Fully numbered wiring harness with corresponding wiring diagrams for easy service	✓	✓	✓	✓	✓
Operational History: Internal log of operating hours, start cycles, and fault events	✓	✓	✓	✓	✓
Battery System: 12V, 1000 Amp CCA battery for engine starting and control power	✓	✓	✓	✓	✓
Options - Available					
Dual AC Output (Additional AC Output)	-	-	✓	✓	✓
28 VDC TR (Transformer Rectifier)	-	✓	✓	✓	✓
28 VDC TRU Simultaneous (AC/DC Output)	-	✓	✓	✓	✓
56 VDC TR (Transformer Rectifier)	-	✓	✓	✓	✓
Digital Gateway/Telematics (GPS/GSM) (Cell/Network Link) (monitor GPU track on GPS, receive messages / notifications on mobile or email)	✓	✓	✓	✓	✓
Premium Engine Warning Kit	✓	✓	✓	✓	✓
Auxiliary 115 VAC, 60 Hz Output	✓	✓	✓	✓	✓
Stainless Steel Enclosure	✓	✓	✓	✓	✓
Stainless Steel Fuel Tank	✓	✓	✓	✓	✓
Corner Bumpers	✓	✓	✓	✓	✓
Cable Tray Rollers	✓	✓	✓	✓	✓
Foam-Filled Tires	✓	✓	✓	✓	✓
Low Coolant Shutdown SDS	✓	✓	✓	✓	✓
Cable-Connected Warning System (Strobe)	✓	✓	✓	✓	✓
Battery Switch (Required with Cable Connected Warning System)	✓	✓	✓	✓	✓
Fire Extinguisher	✓	✓	✓	✓	✓
Quick Break Away Output Cable	✓	✓	✓	✓	✓
Towbar Warning System	✓	✓	✓	✓	✓
Towbar Lock System	✓	✓	✓	✓	✓
Torsion (Flexible) Rear Axle	✓	✓	✓	Feature	Feature
Aux. Battery with Battery Separator		✓	✓	✓	✓
Manual floodlight for night operation	✓	✓	✓	✓	✓
DC Power socket	✓	✓	✓	✓	✓
Option - Cold Weather Kit (CWK) - (Includes: Glow Plugs, Battery Warmer, Block Heater,..)					
Cold Weather Kit -Tier 3, Tier 4F / Stage 5	✓	✓	✓	✓	✓
Extreme CWK - Tier 3, Tier 4F / Stage 5	✓	✓	✓	✓	✓
Custom Engine Kits Available (on request)	✓	✓	✓	✓	✓
Feature - Warranty					
Warranty: 2 Years / 2000 Hours (whichever comes first)	✓	✓	✓	✓	✓
Feature - Support					
Worldwide parts availability & optional telematics monitoring for real-time performance tracking	✓	✓	✓	✓	✓



PUSH-A-BUTTON!
AN INTUITIVE INTERFACE THAT
MAKES OPERATION SIMPLE



BECAUSE SOMETIMES YOU NEED TO KNOW

5" Color Display Shows 7 Key Engine & Generator Functions in Real Time
Instantly Check GPU Performance at a Glance
Menu Buttons Provide Detailed Data Access
Auto-Timed Warm-Up & Cool-Down Cycles
Optional Auto Sleep Shuts Off Power After Cool-Down



AMPJET 400HZ AC CONTROLS

5" Color Display – 7 Critical Metrics at a Glance
Main System Power Switch
Primary Output Controls
Warning Beacon and Marker Lights Switch
AC/DC Selector Switch
Simple Push a Button Start/Stop
DEF Status Indicator
Second Output Controls (Optional)
Additional Information Menus
F+F Bypass Switch (Covered)



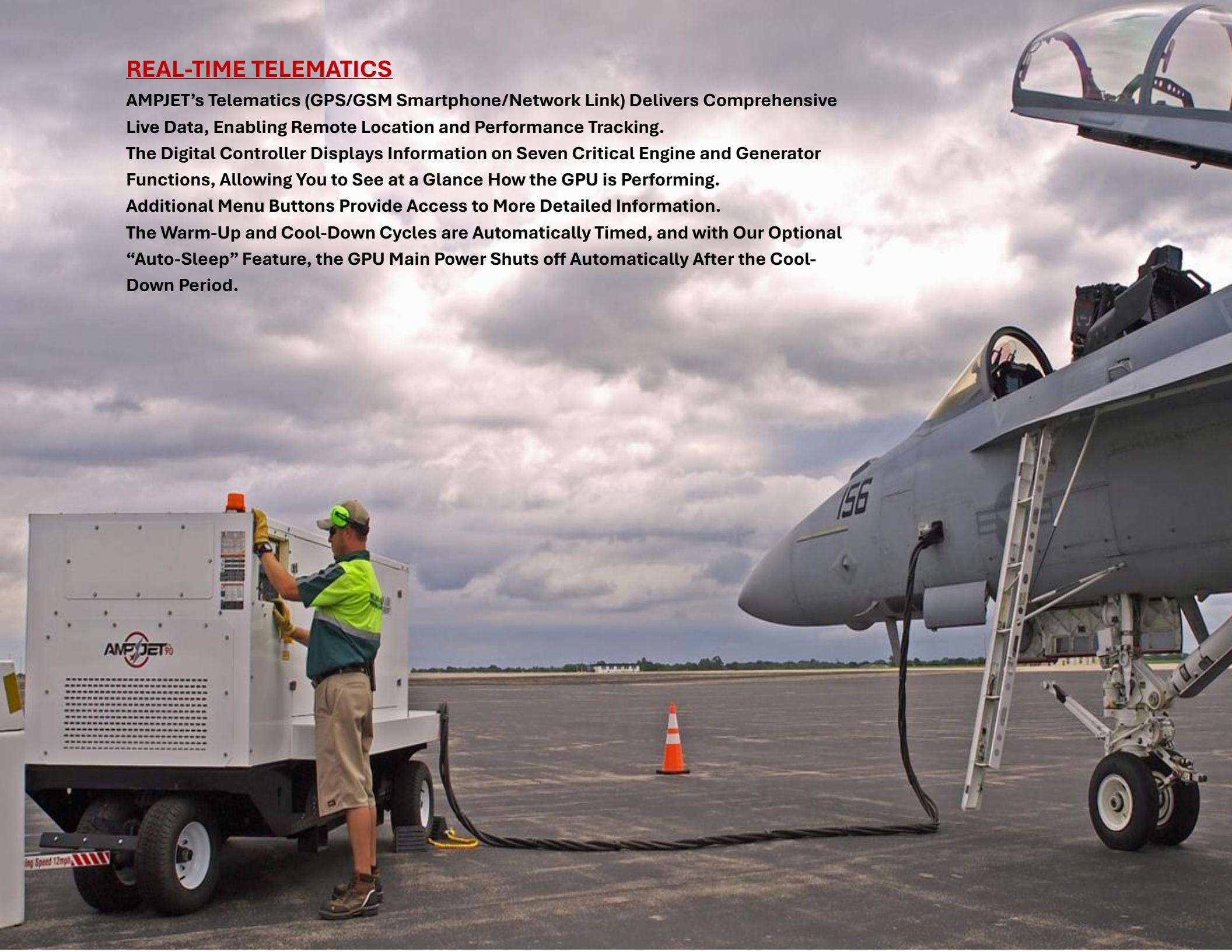
REAL-TIME TELEMATICS

AMPJET's Telematics (GPS/GSM Smartphone/Network Link) Delivers Comprehensive Live Data, Enabling Remote Location and Performance Tracking.

The Digital Controller Displays Information on Seven Critical Engine and Generator Functions, Allowing You to See at a Glance How the GPU is Performing.

Additional Menu Buttons Provide Access to More Detailed Information.

The Warm-Up and Cool-Down Cycles are Automatically Timed, and with Our Optional "Auto-Sleep" Feature, the GPU Main Power Shuts off Automatically After the Cool-Down Period.



AMPJET GPU - TRUCK MOUNTED

Trucks Options: Isuzu, Hino and Iveco



AMPJET e-GPU (BATTERY-POWERED GROUND POWER UNIT)

GPU OUTPUT

- Automatic Voltage Compensation: Load Dependent or via Remote Feedback
- Plug & Play: Just Connect to the Aircraft, no Adjustments or Extra Accessories Needed
- 4-Quadrant Operation: Faster System Response & Safer NBPT Operation
- Vector Control Inverter: Higher Efficiency and Smoother Performance

EFFICIENCY

- Up to 97% Efficiency: 90kVA @ PF 0.8–1.0
- Green Standby Mode: Only 20 W losses
- Ultra-Low No-Load Losses: Less than 1%



INVERTER

- Static Regulation: 0–100% load $\pm 1\%$
- Dynamic Regulation: 100% to 10%, Recovery within 20ms
- Low Harmonic Distortion: <2% (Linear Load)
- Electronic Overload Protection: 120% @ 600s; 150% @ 60s; 200% @ 5s
- Overload Capacity (IGBTs): 150% Continuous
- Frequency Stability: $\pm 0.01\%$ Crystal Controlled
- Load Power Factor: 0–1
- High Efficiency: 97%

CELL CONFIGURATION

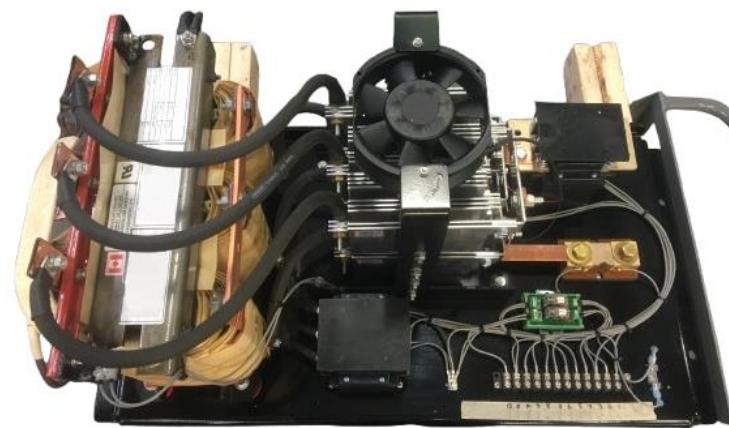
- Cell Configuration: LiFePo4 Technology
- Capacity Range: 130–499 kWh

AMPJET TR KITS

- 200 V AC, 400 HZ and 28.5V DC -850 AMP Continuous, (Adjustable Current Limiting 300-2000 AMP).
- The TR Designed for Seamless Integration with 400 Hz AC Generators.
- Delivered as a Complete, Ready-To-Install Kit, It Provides a Reliable and Efficient Solution for Your Power System Requirements.

OPTIONS AVAILABLE FOR AC UNITS:

- 28V DC TR (Transformer Rectifier)
- 56V DC TR (Transformer Rectifier)
- 28V DC TRU (AC/DC Output Simultaneous)



AMPJET PRODUCTION LINE



AMPJET CUSTOMER SUPPORT

- Professional Training on New Equipment and Test-Running Services
- Availability of Spare Parts for Over 10 Years
- 24-Hour Technical Support

OUR CUSTOMERS





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