

From the team that brought you the world's first commercially available locomotive APU – and supplied tens of thousands of APU's to the transportation industry – 3-APE and IMPCO Technologies present their newest innovation:

The Banana

aka IMPCO LWR
LOCOMOTIVE AUXILIARY
POWER UNIT

We were green, but now we're ripe...

We listened!

You said reduce the size and weight...

You said make it 72 VDC...

We've done that *and* kept the same price as the original locomotive APU first introduced over 15 years ago!

The **Banana** features a CAT/Perkins diesel engine that is governed at 2,500 RPM. The engine drives a 150 A, 72 VDC (11kW) generator that heats the locomotive coolant and lube oil, charges the batteries, and can be used to power cab heaters, lights and air conditioners, ensuring your crew's comfort.

The **Banana** takes green technology and ripens it to perfection, incorporating innovative new design and automation. The **Banana** includes an advanced control system complete with adjustable on/off locomotive water temperature and battery set points and diagnostics with freeze frame data and real time data monitoring.

Everyone wins with a Banana!

You'll reduce most excess idling, save money on fuel and engine wear, meet EPA emissions regulations and local noise ordinances, and keep your crew comfortable – it's a win-win for everyone.



Only 690 lbs

BANANA also known as
IMPCO LWR is distributed
worldwide by 3-APE

PATENT PENDING

Save on fuel
without sacrificing
crew comfort

Get a Banana



The Banana Locomotive APU

Saves fuel and engine life without sacrificing crew comfort

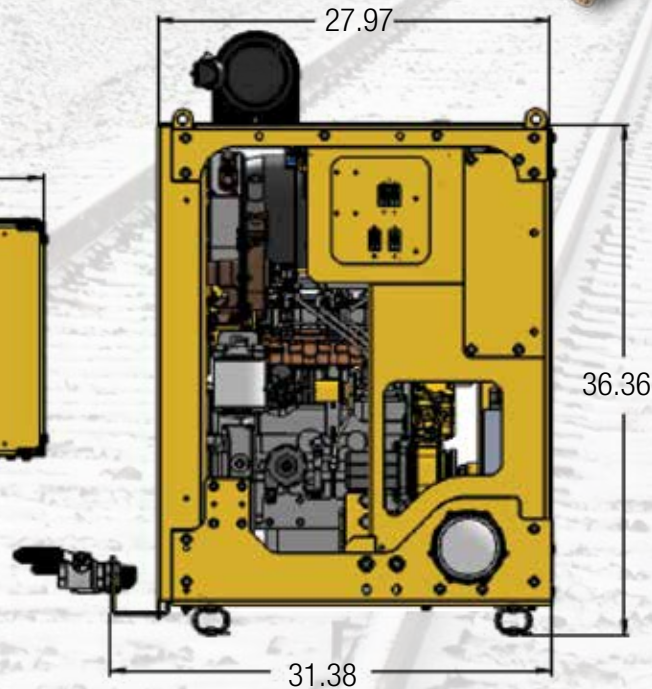
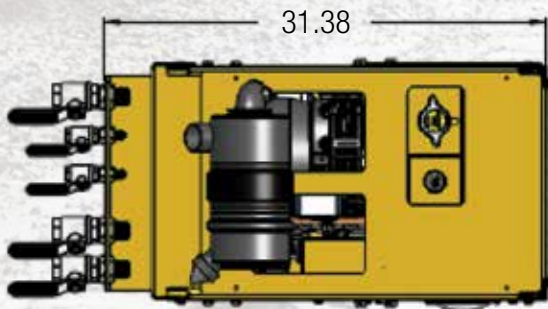
Specifications and features:

Engine	Perkins 400 Series 3 Cylinder Diesel, 28 hp@3200 rpm; Tier 4 Interim; Low oil pressure and coolant over-temperature shutdown's
Lubrication System	6 gallon oil capacity with oil level maintainer and filter
Electrical System	150A, 72VDC generator for locomotive loads; 40A, 12VDC APU alternator for APU loads
Fuel System	12VDC electric fuel lift pump; filter
Exhaust	1.5" diameter pipe; muffler shipped loose
Cooling System	Glycol based APU cooling system; cooled via liquid to liquid heat exchanger with locomotive water
Locomotive Engine Water Heating System	12 kW via smart 74V heater ; 22 gallons/min centrifugal belt driven pump
Locomotive Engine Oil Heating System	4 gallon/min circulation via APU driven pump through liquid to liquid heat exchanger
Drive System	Heavy duty long life generator



Weight & Dimensions:

Dry weight estimate = 690 lbs



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