



**TRADEWINDS<sup>®</sup>**  
**POWER CORP**

# PERKINS AG OPEN POWER UNITS

PERKINS ENGINE OPEN POWER UNITS (OPU) TIER 3 AND TIER 4

Tradewinds Power Corp (TPC) OPU units are designed, packaged, and tested to meet the power requirements of a wide range of equipment used in agricultural applications. All our systems and components are prototyped, assembled, and tested within a purpose built packaging, manufacturing, and test facility.





# POWER FOR AGRICULTURE

*We have Tier 3 and Tier 4 Final Perkins OPUs*

EPA emission standards are transitioning to Tier 4 final levels. Manufacturers are offering Tier 3 interim engines under the EPA flexing program as engine manufacturers transition to Tier 4 final technology requiring catalytic converters and DEF exhaust emission technology. Tradewinds Power Corp are offering both Tier 3 and Tier 4 engines to the agricultural sector. Our Perkins range of OPUs offer AG customers a very compact, portable, reliable, robust, and easy shaft horse connection, with many power node options.



## TIER 3 DIESELS

Tier 3/Stage III A engine the 1100 series offers a choice of mechanical or electronically controlled common rail engines. Electronically controlled engines deliver the right fuel injection for the load applied to the engine.

---

**FILTRATION:** Latest high capacity fuel filtration for maximum reliability

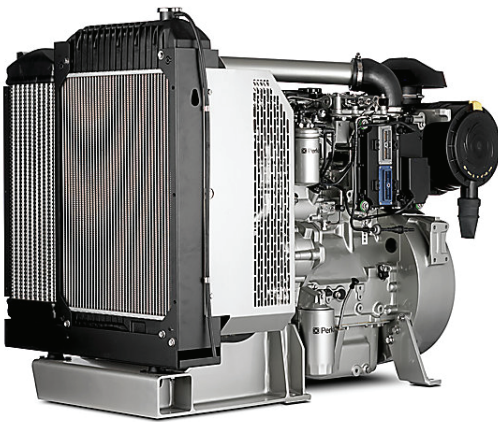
---

**SINGLE SIDE SERVICE:** For ease of end user servicing and access

---

**MAX. TORQUE AND POWER:** Fuel injection that maps actual load and speed

---



## TIER 4 DIESELS

While Tier 4 Interim/Final emission standards is the primary aim of Perkins engine technology offering, there are several other customer benefits from Perkins installed aftertreatment options including:

---

**FUEL ECONOMY:** More efficient combustion for lower operating costs

---

**REDUCED EMISSIONS:** Green agriculture power meeting EPA Tier IV final

---

**COMPACT:** Common rail injection for superior power density per given CID

---



## PERKINS ENGINE TECHNOLOGY

With the Perkins electronic control and high pressure common rail system, the engine can be integrated fully into the machine, delivering smoother operation for the user, faster response and providing operator feedback on engine performance. Other advance emission technologies includes:

---

**EXHAUST GAS RECIRCULATION:** Reduces nitrogen oxides formed

---

**SELECTIVE CATALYTIC REDUCTION:** With DEF greatly reduces NOx

---

**EXTENDED SERVICE INTERVALS:** Reduced wear and lube oil contamination

---



### COMPREHENSIVE RANGE OF OPEN POWER UNITS WITH FULL PRODUCT SUPPORT

Our Perkins OPU's are designed to meet the requirements of a wide range of agricultural equipment needing reliable shaft horse power.

Situated in one of the principal growing areas of the United States, Tradewinds Power Corp have the engineering and market knowledge to bring to you the most reliable OPU's, all designed and packaged within a purpose built facility.

We offer our OPU clients "One-Stop-Shop" total service contracts. We have one of the best service networks in the South East with highly trained technicians.

### VALUE WITHOUT SACRIFICING QUALITY

Our long list of repeat agricultural customers is the best testimony to our knowledge of our customers' needs, and our ability to deliver OPU's that meet the markets rigid standards of reliability and low cost of ownership with the most competitively priced product.

We will also package to suit the application.

TPC MODEL	Max. Power Rating hp (kW)		hp 1800 rpm Continuous	Torque ft-lbs (Nm)	Torque rpm	Weight lbs (kg)	Key Dimensions inches (mm)		
	Intermittent	Continuous					Height	Length	Width
TIER 3 PERKINS OPUs									
TP61-I	61.0 (45.5)	54.9 (50.0)	42.8 (32.0)	139.5 (189.0)	1,800	748 (339)	39.3	54.3	28
TP91-I	99.9 (74.5)	89.9 (67.1)	84.4 (63.0)	392 (289)	1,400	1297 (589)	38.0	64.2	24.5
TP111-I	111.3 (83.0)	100.2 (74.7)	90.5 (67.5)	308.3 (418)	1,400	1393 (631)	38.0	65.6	27.0
TP129-I	129.4 (96.5)	116.5 (86.9)	115.0 ( 86.0)	380.6 (516)	1,400	1182 (531)	42.7	69.4	29.5
TP156-I	156.2 (116.5)	140.6 (104.9)	140.5 (104.9)	520.7 (706)	1,400	1894 (859)	44.9	84.0	31.0
TP174-I	173.9 (129.0)	156.5 (116.8)	156.5 (116.8)	590 (800)	1,400	1894 (859)	44.9	84.0	31.0
TP202-I	202.5 (151.0)	182 (135)	182 (135)	680 (922)	1,400	1894 (859)	44.9	84.0	31.0
TP250-I	249.4 (186)	224.5 (167.4)	224.5 (167.4)	774.4 (1050)	1,400	1894 (859)	44.9	84.0	31.0
TP275-I	274.9 (205)	247 (185)	247 (185)	774.4 (1050)	1,400	1894 (859)	44.9	84.0	31.0
TIER 4 PERKINS OPUs									
TP74-I4	74.3 (55.4)	66.9 (49.9)	63.0 (47.0)	214.6 (291.0)	1,600	677 (307)	32.7	38.4	26
TP115-I4	115.3 (86.0)	104.8 (77.4)	101.3 (75.6)	331.9 (450)	1,400	1014 (460)	37.6	61.9	27.7
TP147-I4	147.6 (110.1)	132.8 (99.1)	120.6 (90.0)	413 (560)	1,400	1577 (714)	45.3	74.4	32.3
TP173-I4	173.5 (129.4)	156.2 (116.5)	155.0 (115.7)	553.2 (750)	1,400	1634 (741)	47.8	56.4	32.2
TP225-I4	225 (168)	202.5 (151.0)	202.5 (151.0)	805 (1092)	1,400	1634 (741)	47.8	71.4	32.3
TP250-I4	250 (186.5)	225 (167.8)	225 (167.8)	895 (1214)	1,400	1634 (741)	47.8	71.4	32.2
TP275-I4	275 (205)	247.5 (184.6)	247.5 (184.6)	895 (1214)	1,400	1634 (741)	47.8	71.4	32.2

The manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.






---

MPC-20 Engine Controller Depicted

---

Available on remote stand

---

Designed for outdoor environment

---

### AUTOMATIC ENGINE CONTROLLER

We have developed an engine control unit for the manual and automatic starting and monitoring system that meets the rigid and challenging environment of our served agricultural equipment customers. Consider the following features:

- Full engine control and safety shut-down monitoring
- Can-based display with rich full-color graphics
- Bonded glare-free LCD screen, viewable in direct sunlight
- Easy-to-use configuration software
- Full auto-start, manual start, and off controls
- Rugged design for extreme environments

### PRODUCT RELIABILITY

Farmers choose our products for performance and the low cost of ownership.

### REASONS TO CHOOSE OUR PERKINS OPUs

Farmers, nurseries, live stock providers, and other AG customers choose us for:

#### Performance

- Compact with lower footprint
- Proven technology in served market
- Best torque where you need it
- Rated to carry the load required

#### Cost of ownership

- 500-hour oil changes
- Superior oil filtration
- Lower capital investment cost
- Best fuel consumption

---

*The dedication of our employees is our greatest strength and we look forward to providing you with the highest quality products and service.*

---

### SUPERIOR ENGINEERING

We have over 40-years experience in packaging OPUs, generator sets and pump packages for a wide range of applications. Located in Florida, we have invested in the facilities, engineering, design resources and development expertise to offer value engineered, tried and tested equipment.

### PRODUCT RELIABILITY

The Perkins engine quality is a must to match the rigid standards for quality and reliability found in all of our products. Our Perkins OPUs are designed and engineered to provide years of reliable operation in their served with minimal cost of ownership.

### WARRANTY

Complete package supplied with one-year unlimited warranty.

#### Self Contained Package

- Mounted on fabricated steel frame
- Clutch assembled to flywheel housing
- All moving surfaces & belts guarded
- Mounted exhaust, radiator, and filters

#### Engineered for Agricultural Use

- Diesels already used by AG OEMs
- Engineered for operating conditions
- Controls for powering AG equipment
- Designed for minimal maintenance




---

OPU power up to 275 hp

---

Conveniently packaged shaft power

---

Tier 3 and Tier 4 products

---

