



GROUND POWER UNIT GPU 7/90 TAURUS

GPU 7/90 TAURUS is designed for a.c. and d.c. powering of aircraft. It is driven by a multi-fuel engine and fit for towing.

The unit is equipped with the following systems:

- auto diagnostics
- remote online diagnostics
- keyless start
- winter quick start
- protection against towing with unwound outgoing cables
- turbocharger protection against overheating
- tire protection against punctures

The unit is adapted for air transport.



DIESEL ENGINE	
Type	DEUTZ TCD 2013 L04 2V
Engine speed	2000 rpm
Engine electrics	24V d.c.
Diesel engine operation	4-stroke in-line engine, common rail system
Emission level	EU COM IIIA
Engine protection	Low oil pressure shutdown High coolant temperature shutdown Intake air restriction indication
OUTPUT a.c.	
Nominal output voltage	3x200V/400Hz + N
Nominal output power	90kVA
Current	260A
Overload Current (4 sec)	290A
Voltage regulation	112-118V
Voltage stabilization	±1% with any power factor and speed variations between -5% and +30%
Efficiency	86% @ 25% load 89% @ 50% load 92% @ full load
Waveform Distors.(THD) at full load	1,6%
Individual harmonic max. at full load	1%
Safety features	Over/Under-voltage Over/Under-frequency Overload
OUTPUT d.c.	
Nominal output voltage	28V
Current	800A (configurable output current limit for ATR)
Voltage regulation	Adjustable from 26 to 28V for test purposes
Overload current 30 sec	1800A
Overload current 5 sec	2500A
Voltage ripple	<1%
Safety features	Over/Under voltage Output overloads Input electrical failures
DIMENSIONS AND WEIGHT	
Weight	2260 kg
Dimensions (L x W x H)	3400 x 1500 x 1720 mm
Outgoing a.c. and d.c. cables length	10 m
ENVIRONMENT	
Operating temperature	from -30 to +55 °C
Humidity	< 98 % @ 35°C
Altitude	1000 m
STANDARDS	
Safety	EN 62040-1-1
Emissions	EN 61000-6-4
Immunity	EN 61000-6-2
Aircraft ground support electric supplies	ISO 6858:2017
FEATURES	
Ease of use operating color LCD touchpanel	
Fully automated control system	
Remote diagnostic system	
Protection against pulling the plug from aircraft	
Anti-towing safety	
Performance and efficiency under extreme conditions - 40 / + 50°C	
Extreme cold kit for start-up at low temperatures < -30°C	
Automatic idling for further fuel savings	
220 liters fuel tank allowing over 24 hours of continuous work	