



| Brochure main description | | @1500rpm | @1800rpm |
|---|-----------------------|-------------------|-----------------|
| Application & simbol | | Power G | eneration |
| Engine identication main | | F | 28 |
| Engine identication rating | kW | 55 | 55 |
| Engine features | | PG G | -Drive |
| Emission feature | | Stag | ge V |
| | | | - |
| Main characteristics | | @1500rpm | @1800rpm |
| Emission certification | | Sta | ge V |
| Commercial code (for order) | | | |
| Other Commercial code | | | |
| Fechnical code (original plant engine code, on engine plock) | | | |
| Fechnical homologation code | | | 1 |
| Stand-by power (gross) [mech] | kW | 54 | 54 |
| Specific power | kW/I | | |
| Electric commercial power (estimation alternator power output) | kWe [kVA] | | |
| BMEP | bar | 15,4 | 12,9 |
| Dil consumption on mission (average) | % fuel comsumption | | 25 |
| Cycle | | | 4 stroke |
| Air charging system pattern | | Turbocharge | d aftercooled |
| Number of cylinder | | | 4 |
| Configuration (cylinder arrangement) | | in | line |
| Bore | mm | 90 |),8 |
| Stroke | mm | 10 | 08 |
| Stroke / Bore | | 1, | 20 |
| Displacement | I | 2 | ,8 |
| Jnit Displacement | I | 0 | ,7 |
| Bore pitch | mm | | |
| /alves per cylinder | | : | 2 |
| Cooling system type | | liq | uid |
| Direction of rotation (looking flywheel) | | anti-clo | ockwise |
| Compression ratio | | 17 | :1 |
| Firing order | | 1 - 3 | - 4 - 2 |
| njection type | | direct - electror | nic common rail |
| Engine brake configuration | | , | - |
| Be10 | | 800 |)0 h |
| Cylinder Head | | | |
| Single / Multiple | | | |
| Material | | | |
| Head air circulation | | | |
| Intake valve dia. | mm | | |
| Exhaust valve dia. | mm | | |
| Camshaft | | | |
| Layout | | OI | HV |
| Cam carrier | | | |
| Material and Heat treatment | | | |
| Valve train | | | |



| Main characteristics | | @1500rpm | @1800rpm |
|--|------------------|--------------------|-------------------|
| Drivetrain (timing system) | | gear t | appet |
| Valve actuation | | tapper & push rod | |
| Variable valve actuation system | | | |
| Cylinder block (crankcase) | | No Str | uctural |
| Material of cylinder block | | cast | iron |
| Type of liners | | block | linear |
| Liners replaceable; (slip fit or interference fit) | | | |
| Bearing caps | | | |
| Crankcase Ventilation | | ye | es |
| Oil separator | | | |
| Crankshaft & counterweights | | | |
| Material | | | |
| Acceptable Inertia (clutch) | kgm ² | | |
| Balancing | | n | 0 |
| Turbocharger & EGR system | | | |
| Turbocharger type | | fixed geometry wit | h wastegate valve |
| Turbocharger supplier | | | ŭ |
| Turbocharger control | | WG pneum | atic control |
| Pressure after turbocharger compressor | mbar | 26 | |
| Max turbine inlet temperature | °C | | |
| Temperature after turbocharger compressor | °C | | |
| Method of cooling the turbocharger | - | oil lubi | ricated |
| Turbo protection devices | | | |
| EGR type | | external co | oled EGR |
| EGR control strategy | | | - |
| EGR recirculation rate | | < 1 | 0% |
| Valve | | | - |
| Cooler | | | |
| Control | | | |
| Air mass measurement | | | |
| Exhaust flap | | | |
| Exhaust flap supplier | | | - |
| Actuation type | | | - |
| Exhaust flap cooling | | | - |
| Switchability (1500-1800 rpm) | | | |
| Emission level 1500 rpm | | Star | ge V |
| Emission level 1800 rpm | | | · 4B |
| Front power take off | | | |
| PTO type | | | - |
| Max torque available from front of crankshaft (no | Nime | | |
| side load) | Nm | • | - |
| Power take off on gear train | | | |
| SAE A 9 teeth | Nm | | - |
| SAE A 11 teeth | Nm | | - |
| SAE B 13 teeth | Nm | | |
| SAE B (DIN 5482) | Nm | 21 | 10 |
| SAE 2B 15 teeth(ANSI B92,1) | Nm | | - |
| References values | | | |
| Engine dimension LxWxH (indicative values) | mm | | |





| Main characteristics | | @1500rpm | @1800rpm |
|---|------------------|--|------------------------|
| G-Drive Dimension LxWxH (indicative values) | mm | 1151 x 720 x 985 | |
| Max permissible engine inclination | deg | 35° (front inclination) 45° | (all other directions) |
| Engine Weight - Dry (no fluids, value purely indicative) | kg | - | |
| Engine Weight - Wet (with fluids, value purely indicative) | kg | - | |
| G-Drive Weight - Dry (no fluids, value purely indicative) | kg | | |
| G-Drive Weight - Wet (with fluids, value purely indicative) | kg | | |
| Center of gravity (FFOB or RFOB according to picture, standard engine layout) | mm | - | |
| Principal moment of inertia (reference on center of gravity ,standard engine layout) | kgm² | - | |
| Principal moment of inertia (reference matrix based on center of gravity,standard engine layout) | kgm² | - | |
| Center of gravity (FFOB or RFOB according to picture, standard IPU/G-Drive layout) | mm | RFOB: x=-10.3 mm ; y | =151 mm ; z=198 |
| Principal moment of inertia (reference on center of gravity ,standard IPU/G-Drive layout) | kgm ² | I1=14.0 ; I2=17. | |
| Principal moment of inertia (reference matrix based on center of gravity, standard IPU/G-Drive layout) | kgm ² | [21,9 0,0453 -0,0363 ; 0,0453 16,3] | |
| Mass moment of inertia - rotating components (excluding flywheel) | kgm² | 0,72 | |
| Mass moment of inertia - standard flywheel | kgm ² | 1,122 | 2 |
| Bending moment on the flywheel housing | Nm | | |
| Flywheel housing SAE sizing | | SAE | 3 |
| Flywheel SAE sizing | | 11"1/2 | 2 |
| Bending moment on PTO | Nm | | |
| Max static mounting surface load | Ν | | |
| Crankshaft thrust bearing pressure limit | | | |
| Intermittent load: | MPa | | |
| Continuous load: | MPa | | |
| Rear main bearing load | MPa | | |
| Max bending moment available from front of the crankshaft: | | | |
| 0 deg | Nm | 100 | |
| 90 deg | Nm | 300 | |
| 180 deg | Nm | 300 | |
| Environmental operating conditions | | | |
| Max altitude for declared performances | m | 2000 | |
| Max ambient temperaturefor declared performances | °C | 55 | |
| Min guaranteed temperature for cold start w/o any aid (stand alone engine) | °C | - 23 (with glow plugs) | |
| Min guaranteed temperature for cold start with grid heater (stand alone engine) | °C | - | |
| Min guaranteed temperature for cold start with grid heater and block heater (stand alone engine) | °C | - 32 | |
| Time preheating for manifold heater | S | - | |
| Time post heating for manifold heater | S | | |
| Low idle continuous operation time (reccomended) | h | 60 | |
| Engine performance (Prime power and standby power defined according to ISO normative 8528-1) | | | |
| Continuous power (gross) [mech] | kW | | |
| Prime power (gross) [mech] | kW | 49,1 | 49,1 |
| Stand-by power (gross) [mech] | kW | 54 | 54 |

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| Main characteristics | | @1500rpm | @1800rpm |
|---|--------------|----------------------------|------------------------|
| Fan consumption [mech] | kW | 1,3 | 2,2 |
| Continuous power (net) [mech] | kW | | |
| Prime power (net) [mech] | kW | 47,8 | 46,9 |
| Stand-by power (net) [mech] | kW | 52,3 | 51,8 |
| Typical generator output | | | |
| Generator available power @ Prime power | kW | | |
| Generator available power @ Stand by | kW | | |
| Power limitation according to ambient conditions | | | |
| Ambient temperature above xx°C | %/5°C (xx°C) | | |
| Altitude > 1000 < 3000m above sea level | %/500m | | |
| Altitude > 3000m above sea level | %/500m | | |
| Power limitation due to safety protections | | | |
| Max water temperature (Switch on of the MIL lamp) | °C | 1(|)2 |
| Start derating: switch on of the warning coolant temperature lamp (amber color) | °C | |)8 |
| Max derating (50% derating) switch on of the high | °C | 1. | 2 |
| coolant temperature lamp (redcolor) | U | | 12 |
| Altitude level: gradual reduction of transient response by smoke map correction from | m | 20 | 00 |
| Fuel temperature | °C | 7 | 0 |
| Intake manifold air temperature | °C | | |
| ATS Max gas inlet temperature | °C | | |
| Max allowed exhaust temperature | °C | | |
| Turbine overheating protection | 0° | | |
| Turbine overspeed protection | | 240 | |
| Oil temperature protection | rpm °C | 240000 120 | |
| • • | bar | 14 | 20 |
| Oil pressure protection (min engine rpm) | Dai | | |
| Fuel System | | | |
| Fuel density | kg/l | 0, | 84 |
| Injection system type | | electronic common rail | |
| Injection pump manufacturer | | BOS | SCH |
| Injection model type | | | |
| njection model pump | | | |
| Injection pressure | bar | 16 | 00 |
| Injector | | | |
| Injector installation (sleeve, sealing flat or conical) | | | |
| njector nozzle | | | |
| Engine fuel compatibility | | see dedicated GOLD B | ook document on fluids |
| Feed pump on engine | | integrated in high | |
| Max fuel flow supply line | l/h | | - E. Seeare Famp |
| Nominal feed pressure | bar | | |
| Fuel filter | Jai | cartridge on left side >95 | % @ 4 micron ISO 1043 |
| Fuel filter clogging sensor | | - | |
| Max continuous allowable fuel temperature (without | | | es |
| derating) | °C | 7 | U |
| Max relative pressure at gear pump inlet | bar | | |
| Min relative pressure at gear pump inlet | bar | 0 | 5 |
| Max back flow relative pressure | bar | 0 | 2 |
| Max back flow restriction | bar | | 2 |
| Max heat rejection to return fuel | kW | | |

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| Fuel System | الرجير الم | @1500mm:11.5 k=/k @1000mm: 11.4 |
|--|-------------------------------|----------------------------------|
| Max fuel flow return line | kg/h | @1500rpm:11.5 kg/h @1800rpm:11.9 |
| Min fuel tank venting requirement | m³/h | |
| refilter / Water separator micron size | μm | >98,5 % @ 20 |
| Air Intake System | | air ta air |
| Aftercooling system type | | air to air |
| nterstage cooling type RoA (Temperature raise between ambient and inlet to | | - |
| engine | C° | < 25 |
| Filter air intake temperature (warm air ricirculatuion) | ۵° | 40 |
| Max intake manifold temperature | C° | 50 |
| Compressor inlet pressure (with new air filter) | hPa | ≥ - 45 |
| Compressor inlet pressure (with dirty air filter) | hPa | ≥ - 75 |
| Air filter type | | |
| _oads on turbocharger on compressor intake | kg | 0 |
| oads on turbocharger on compressor outlet | kg | 0 |
| Charge air flow (max) | kg/h | |
| Exhaust System | | @1500rpm @1800rp |
| Max back pressure (after exhaust flap) @ rated power | hPa | |
| vith clean system Max mechanical load on turbine flange | | 0 |
| | kg °C | 0 |
| Aax ambient temperature for exhaust flap actuator | | |
| /lax exhaust temperature After Treatment System /lax exhaust flow rate | | |
| | kg/h | 00.0 |
| nergy to exhaust | kW | 33,6 34,1 |
| After Treatment System | | |
| After Treatment System | DOC + DPF | |
| 00 | | - |
|)PF | | yes |
| 000 | | yes |
| SCR | | - |
| Jrea Dosing System | | - |
| AdBlue mixer | | - |
| ATS sensors | | |
| DPF regeneration strategy | | |
| <u> </u> | | |
| | | |
| Lubrication System | | |
| Dil sump capacity, max level | l | 8 |
| Dil sump capacity, max level Dil sump capacity, min level | | 8 5,5 |
| Dil sump capacity, max level Dil sump capacity, min level | | |
| Dil sump capacity, max level Dil sump capacity, min level Dil system capacity including filter | | |
| Dil sump capacity, max level Dil sump capacity, min level Dil system capacity including filter Dil pump type | | 5,5 |
| Dil sump capacity, max level Dil sump capacity, min level Dil system capacity including filter Dil pump type Dil pump drive arrangement | /min | 5,5 gear pump |
| Dil sump capacity, max level Dil sump capacity, min level Dil system capacity including filter Dil pump type Dil pump drive arrangement Min oil pump flow | l l l l/min l/min | 5,5 gear pump |
| Dil sump capacity, max level Dil sump capacity, min level Dil system capacity including filter Dil pump type Dil pump drive arrangement Ain oil pump flow Max oil pump flow (@rated speed) Ain oil pressure @ low idle (engine oil temp at 120°C) | | 5,5 gear pump |
| Lubrication System Dil sump capacity, max level Dil sump capacity, min level Dil system capacity including filter Dil pump type Dil pump drive arrangement Min oil pump flow Max oil pump flow (@rated speed) Min oil pressure @ low idle (engine oil temp at 120°C) Min oil pressure @ rated speed (engine oil temp at 120°C) | l/min | 5,5 gear pump |

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| Lubrication System | | |
|--|------|--|
| Max oil temperature @ full load (in main gallery) | °C | 120 |
| Max oil pressure peak on cold engine | bar | 120 |
| Oil cooler type | Dai | |
| | | signal from ECU |
| Transducer for indicating oil temperature and pressure Max engine angularity - longitudinal / transversal (std | | Ŭ |
| oil pan) Allowed engine gradability during installation on | deg | 35° (front inclination) 45° (all other directions) |
| vehicle | deg | ± 4 |
| Oil servicing intervals | h | see dedicated GOLD Book document on fluids |
| Oil filter type | | spin-on |
| Oil filter capacity | I | 0,5 |
| Max oil content admitted in blow by gas (after filter) | g/h | 0,4 |
| Oil for cold condition mission (T° ambient < −25°C) | | see dedicated GOLD Book document on fluids |
| Cooling system | | @1500rpm @1800rpm |
| Type (water to water or air to water) | | air to water |
| Recommended coolant | | see dedicated GOLD Book document on fluids |
| Min radiator cap pressure | kPa | 100 |
| Warnnig setting first threshold | °C | 106 |
| Max additional restriction (cooling system) | Pa | |
| Air to boil (prime power, open genset configuration). For further information see GB document | °C | |
| Air flow (prime power, open genset configuration) | m³/s | |
| Air to boil (stand by, open genset configuration). For further information see GB document | °C | I |
| Air flow (stand by, open genset configuration) | m³/s | |
| EGR Cooler water flow (for $\Delta T=6^{\circ}C$) | l/s | |
| LP-CAC water flow (for $\Delta T=6^{\circ}C$) | //s | |
| | ., e | |
| Diameter | mm | 550 |
| Number of blades | | 10 |
| Drive ratio | | 1.1 |
| | | 1,1 |
| Speed | | |
| Air flow | | N/A |
| Power consumption | | @1500rpm:1,3 kW @1800rpm: 2,2 kW |
| Radiator | | |
| Core dimensions LxWxh | mm | |
| Dry weight | kg | |
| Radiator coolant capacity | I | |
| Optimum coolant temperature range @engine out (50% glycol) | °C | 85 - 95 |
| Engine Water pump Type | | centrifugal pump |
| Engine water pump drive | | driven by belt |
| Coolant capacity (engine only) | I | 5 |
| Coolant capacity (radiator & hoses) | I | |
| Thermostat type | | wax type |
| Thermostat position | | on cylinder head |
| Thermostat opening / fully open temperature | °C | 79± 2÷ 94±2 |
| Recommended coolant circuit pressurization range (relative) | hPa | 1000 |
| Coolant engine pressure outlet – inlet (delta pressure, open thermostat, high idle conditions) | hPa | |

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| Cooling system | | @1500rpm | @1800rpm |
|---|----------|------------------------------|-------------------|
| Coolant engine pressure outlet – inlet (only with remote thermostat, ex. retarder) | hPa | | |
| Min coolant pressure (no pressure cap and thermostat closed) | hPa | 10 | 00 |
| Coolant water pump inlet pressure (water temperature 60-100°C) | hPa | > | 50 |
| Coolant flow to radiator @rated speed | l/h | | |
| Min coolant expansion space (% total cooling system capacity) | % | | |
| Max coolant flow to accessories @ rated speed from | l/min | | |
| _ cab heater Engine out coolant to ambient @rated speed | delta °C | @1500rpm:8.2 dolt | a °C @1800rpm:7.6 |
| Engine out coolant to ambient @tated speed | delta °C | @1500ipin.8.2 deit | |
| Charge air cooler outlet to ambient @max rpm - | | | |
| CAC dT | delta °C | @1500rpm:21.4 delta | |
| Pump water flow | l/min | 68,9 | 82,7 |
| Electrical, Electronic and Control Systems | | | |
| System voltage | V | 1 | 2 |
| Engine control unit | | MD1 (| CS069 |
| ECU software | | | |
| ECU Vehicle connection | | | |
| ECU operating range | °C | -30 ÷ | - +95 |
| Temperature of ECU case for <5' after power up | °C | | |
| ECU rated continuous temperature | °C | | |
| ECU communication protocol | | SAE | J1939 |
| Min power supply for ECU operation | V | 10 | |
| Max power supply for ECU operation | V | 16 | |
| Battery wire connection resistance value @20°C (from battery to ECU) | mΩ | ≤ 70 | |
| Diagnostic connector type | | ISO 14229 | |
| Min cranking speed TDC @-30°C | rpm | 70 | |
| Average cranking speed | rpm | 110 | |
| N° tooth pinion/crown gear | | 10 / | 126 |
| Min battery voltage | V | | 3 |
| Mean battery voltage | V | 14 ± | : 0,5 |
| Min battery current | Ah | | |
| Mean battery current | Ah | 10 |)1 |
| Max starting circuit resistance (to starter) | mΩ | < | 70 |
| Cold starting | | | |
| Without air preheating | °C | - 2 | 23 |
| With air preheating (if available) | °C | -3 | 32 |
| Emission gaseus and particulales | | | |
| NOx (Oxides of nitrogen) [NRSC] | g/kWh | see homologa | tion certificate |
| HC (Hydrocarbons) [NRSC] | g/kWh | see homologa | |
| NOX+HC [NRSC] | g/kWh | see homologa | |
| CO (Carbon monoxide) [NRSC] | g/kWh | see homologa | |
| | g/kWh | • | |
| PM (Participtes) INRSCI | | see homologation certificate | |
| PM (Particlutes) [NRSC] CO2 (Carbon Dioxide) [NRSC] | g/kWh | see homologa | |

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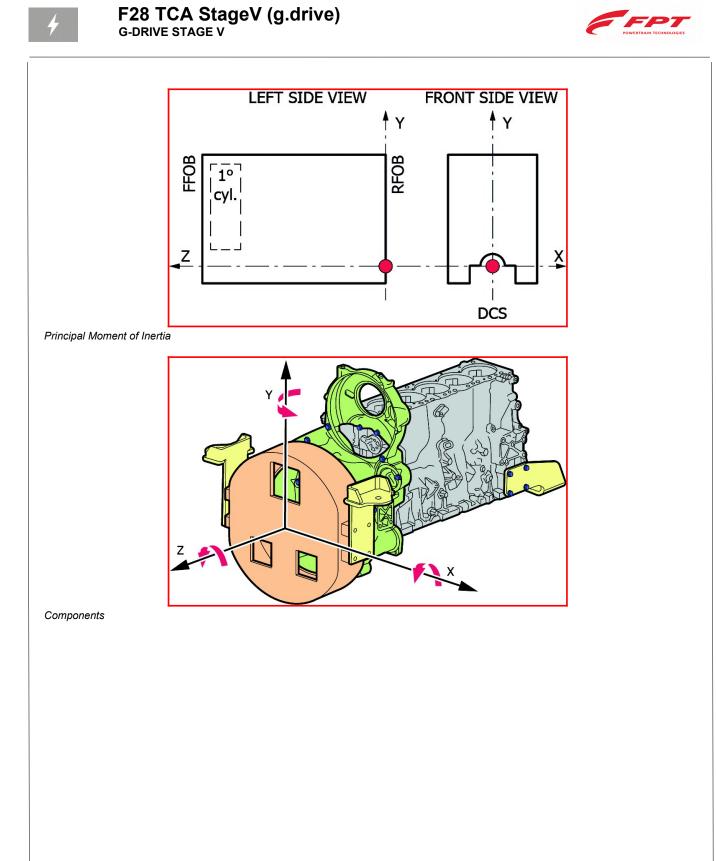


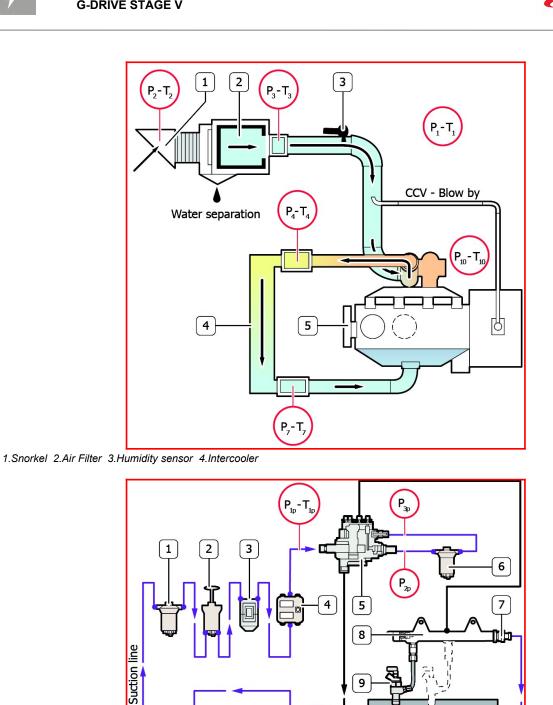
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| Emission gaseus and particulales | | | |
|---|-------------|-------------------------|------------------------|
| IC (Hydrocarbons) [NRTC] | g/kWh | see homologatio | |
| NOX+HC [NRTC] | g/kWh | see homologatio | |
| CO (Carbon monoxide) [NRTC] | g/kWh | see homologatio | |
| PM (Particlutes) [NRTC] | g/kWh | see homologatio | |
| CO2 (Carbon Dioxide) [NRTC] | g/kWh | see homologatio | on certificate |
| Maintenance | | | |
| Oil drain interval | | 600 I | |
| Oil filter change | | 600 I | |
| Oil refilling time | | daily check to evaluate | e oil refill necessity |
| Approved engine oil specifications | | see dedicated GOLD Boo | k document on fluids |
| CCV filter change | | for life | e |
| Fuel filter change | | 500 | |
| Fuel pre-filter change | | 500 | |
| Belt replacement | | | |
| Valve lash check /adjustment | | | |
| AdBlue filter Change | | - | |
| DPF filter service | | 500 | |
| Coolant change | | see dedicated GOLD Boo | k document on fluids |
| Engine Noise | | | |
| Overall sound pressure (engine only) | dBA | N/A | |
| Overall sound pressure (with accessories only) | dBA | N/A | |
| Exahust noise (w/o Muffler) | dBA | N/A | |
| Noise spectrum (octave analysis performed at the position of maximum noise) - diagram | Table dB-Hz | N/A | |
| A-weight sound power level LW function of power (value calculated respecting standard ISO 3744 and 3746. For further information see GB document) | | | |
| 0% (no load) | dBA | | |
| 75% (partial load) | dBA | | |
| 100% (full load) | dBA | | |
| 110% (overload) | dBA | | |
| Step Load (for further information see GB | | @1500rpm | @1800rpm |
| document) G1 (% of PrP) | % | | <u> </u> |
| G2 (% of PrP) | % | | |
| G3 (% of PrP) | % | | |
| G1 (% of PrP) [open flap] | % | - | _ |
| G2 (% of PrP)[open flap] | % | - | - |
| G3 (% of PrP)[open flap] | % | - | - |
| G1 (% of PrP) [closed flap] | % | | |
| G2 (% of PrP) [closed flap] | % | - | - |
| | | - | - |
| G3 (% of PrP) [closed flap] | % | - | - |
| Demoval land (C1) | | | |
| Removal load (G1) | | | |
| Removal load (G2) | % | | |
| Removal load (G2) Removal load (G3) | % % | | |
| Removal load (G2) | % | | |



| Maximum Rating Performance Data | | @1500rpm | @1800rpm |
|---|----------------|----------|----------|
| Torque | Nm | | |
| Ambient Temperature | °C | | |
| EGR Rate | % | | |
| Fuel Flow | g/s | 3,19 | 3,29 |
| Fuel consumption (BSFC) (prime power) | (kg/h) [g/kWh] | [240] | [253] |
| Fuel consumption (BSFC) (stand by) | (kg/h) [g/kWh] | [220] | [229] |
| Fuel consumption (BSFC) (80% prime power) | (kg/h) [g/kWh] | | |
| Fuel consumption (BSFC) (50% prime power) | (kg/h) [g/kWh] | | |
| Fuel consumption (BSFC) (25% prime power) | (kg/h) [g/kWh] | | |
| AdBlue consumption (prime power) | % of fuel cons | - | - |
| AdBlue consumption (stand by) | % of fuel cons | - | - |
| AdBlue consumption (80% prime power) | % of fuel cons | - | - |
| AdBlue consumption (50% prime power) | % of fuel cons | - | - |
| AdBlue consumption (25% prime power) | % of fuel cons | - | - |
| Exhaust Gas Flow | kg/h | 245 | 262 |
| | | | |
| Design air handling system data | | | |
| EGR flow | kg/h | | |
| EGR pressure | kPa | | |
| Boost pressure (compressor outlet) | kPa | | |
| Pressure drop on charge air cooling system | kPa | | |
| Max temperature after HP-Compressor | °C | | |
| Boost temperature (includes EGR effect) | °C | | |
| ATS back pressure | kPa | | |
| Exhaust Gas Temp between HP-TC | °C | | |
| Max Exhaust Gas Temp (after TC) | °C | 471 | 447 |
| Max admitted back pressure after SCR | kPa | - | - |
| Max admitted back pressure after TC | kPa | 25 | 25 |
| Power engine coolant without EGR & CAC (prime power) | kW [kcal/kWh] | | |
| Power engine coolant without EGR & CAC (stand by) | kW [kcal/kWh] | | |
| Power high Temperature EGR Cooler (engine water) | kW [kcal/kWh] | | |
| (prime power) | KW [KCal/KWI] | | |
| Power high Temperature EGR Cooler (engine water) (stand by) Power to coolant due to EGR LP-Circuit (prime | kW [kcal/kWh] | | |
| power) | kW [kcal/kWh] | | |
| Power to coolant due to EGR LP-Circuit (stand by) | kW [kcal/kWh] | | |
| Total Power to coolant (prime power) | kW [kcal/kWh] | 33,7 | 36,9 |
| Total Power to coolant (stand by) | kW [kcal/kWh] | 33,7 | 36,9 |
| Total pump water flow | l/s | | |
| Radiator Coolant Flow (5% less if continuous deareating system, coolant according to FPT norms) | l/min | | |
| EGR Cooler water flow (for $\Delta T=6^{\circ}C$) | l/s | | |
| LP-CAC water flow (for ΔT=6°C) | l/s | | |
| Power in CAC (air to air) (prime power) | kW [kcal/kWh] | 6,6 | 6,8 |
| Power in CAC (air to air) (stand by power) | kW [kcal/kWh] | 6,6 | 6,8 |
| Power Radiated | kW | 9,5 | 9,8 |
| Charge Air Flow | g/s | 64,9 | 69,6 |







7. Overpressure valve 8. Common Rail 9. Injectors 10. Fuel tank

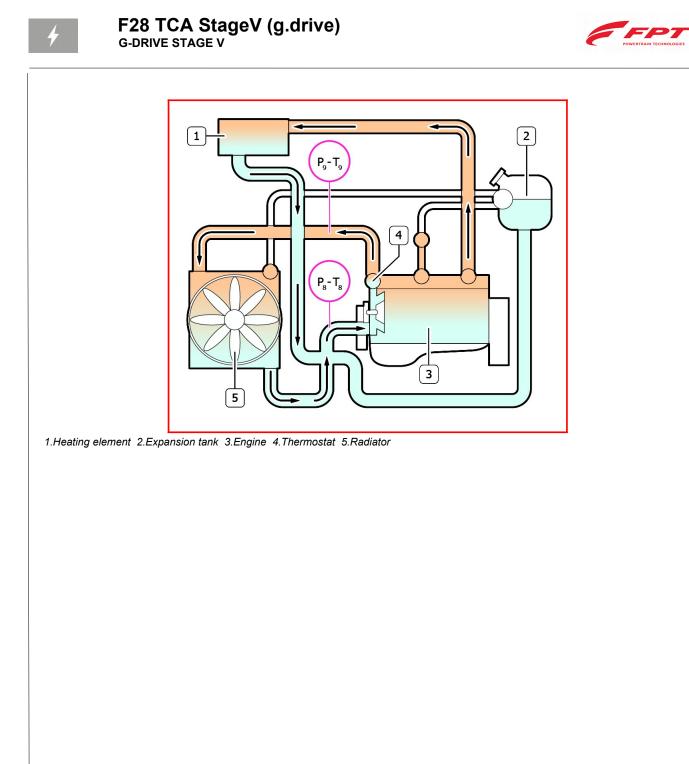
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1.Inspection glass with strainer 2.Prime pump 3.Pre-filter with water separator 4.ECU 5.High Pressure pump 6.Fuel Filter

9

Return line







ACRONYMS LIST

| Acronyms | Description | Acronyms | Description |
|----------|--|----------|---|
| - | Not Needed | iEGR | Internal EGR |
| 2stTC | Two Stage Turbo (sequential) | IPU | Industrial Power Unit |
| Ag | Agricultural | ISC | Interstage Cooling |
| ASC | Ammonia Slip Catalyst (same as CUC) | LD | Light Duty |
| ATS | After Treatment System | LDCV | Light Duty Commercial Vehicles |
| BSFC | Brake Specific Fuel Consumption | LH | Left Hand Side |
| CAC | Charge Air Cooler | LWR | Laser Welded Rail |
| CCDPF | Close Coupled DPF | MD | Medium Duty |
| CCV | Crankcase Ventilation | n/a | Not Available |
| CE | Construction Equipment | NA | Natural Aspirated |
| CI | Cast Iron | NS | Non Structural |
| CRS | Common Rail System | OHV | Over Head Valves |
| CRSN | Common Rail System NKW (Commercial vehicles) | OPT | Option |
| CUC | Clean Up Catalyst for ammonia (same as ASC) | PCP | Peak Cylinder Pressure |
| DAVNT | Dual Axis Variable Nozzle Turbine | ΡΤΟ | Power Take Off |
| DCS | Drawing Coordinate System | RFOB | Rear Face of Block |
| DI | Direct Injection | RH | Right Hand Side |
| DOC | Diesel Oxidation Catalyst | S | Structural |
| DOHC | Double Over Head Camshaft | SAPS | Sulphated Ash, Phosphorus, Sulphur |
| DPF | Diesel Particulate Filter | SCR | Selective Catalytic Reduction catalyst |
| ECEGR | External Cooled EGR | SCRoF | SCRon filter |
| ECU | Engine Control Unit | SOHC | Single Over Head Camshaft |
| EEGR | External EGR | STD | Standard |
| EGR | Exhaust Gas Recirculation | TC | Turbocharged |
| epWG | Electro pneumatic WG | TCA | Turbocharged, Charge Air Cooled |
| eVGT | Electrical VGT | ТНМ | Thermal Management |
| eWG | Electrical WG | UFDPF | Under Floor DPF |
| FFOB | Front Face of Block | UQS | Urea Quality Sensor |
| FGT | Fixed Geometry Turbocharger (no WG) | VE | Bosch Distributor Mechanical Pump |
| FIE | Fuel Injection System | VFT | Variable Flow Turbine |
| HD | Heavy Duty | VGT | Variable Geometry Turbocharger |
| HLA | Hydraulic Lash Adjusters | WG | Waste Gate Turbocharger |
| IDI | Indirect Injection | XPI | Extra high Pressure Injection (Scar Cummins) |

Unit of misure according to international system of unit. Engine accessories and Options available on Option List. All data is subject to change without notice.

UPDATING

| Revision | Description | Date |
|--------------------------|-------------|--------------|
| Revision 1.0_Jan 2023 | | January/2023 |