





Model (1)		Gross Input Torque ⁽²⁾ N•m	Gross Input Power ⁽²⁾ kW (hp)	Gross Input Torque ⁽²⁾⁽³⁾ N•m	Gross Input Power ⁽²⁾⁽³⁾ kW (hp)	GVW kg	GCW kg
2500	General	780	224 (300)	895	254 (340)	15,000	15,000
	Refuse, On-Highway	746	224 (300)	766	224 (300)	12,000	12,000
	Non-North America School Bus	705	149 (200)	750	164 (220)	15,000	15,000
2500 MH	Motorhome	746	224 (300)	895	254 (340)	15,000	15,000
2500 SP	Specialty Vehicles	CONTACT YOUR ALLISON REPRESENTATIVE FOR DETAILS					
2550	General	780	224 (300)	895	224 (300)	13,600	13,600
	Non-North America School Bus	705	149 (200	750	149 (200)	13,600	13,600
2550 SP	Speciality Vehicles	C 0	NTACT YOUR ALL	ISON REPRESENTA	TIVE FOR DETAILS	;	

^{(1).} Models including vocational designations (ie: ORS, OFS, SP, MH) are for global markets. All other models within this document are targeted for outside North American markets only. (2). Gross ratings as defined by ISO 1585 or SAE J1995. (3). Shift Energy Management (SEM) engine controls and torque limiting are required to obtain this rating.

DRIVETRAIN INTERFACES	
Acceptable full-load engine governed speed	2200 – 3800* rpm
Acceptable engine idle speed range (with transmission in Drive)	500 – 820 rpm
Maximum output shaft speed at 105 km/hr (65 mi/hr)	4500 rpm
* Engines with full load governed speed greater than 3800 rpm require Application Engineering review	

MOUNTING

To Engine SAE No.3, SAE No.2

TORQUE CONVERTER				
Туре	One stage, three element, polyphase. Includes standard integral damper which is operational in lockup.			
	Model	Stall Torque Ratio		
	TC-210	2.05		
	TC-211	1.91		
	TC-221	1.73		
	TC-222	1.58		

MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication)			
Range			
First	3.51 : 1		
Second	1.90 : 1		
Third	1.44 : 1		
Fourth	1.00:1		
Fifth	0.74 : 1		
Sixth	0.64 : 1		
Reverse	-5.09 : 1		

Л			
tion Allison 5th Generation Electronic Controls with closed loop adaptive shifts			
[C = Converter mode (lockup clutch disengaged); L = Lockup mode (lockup clutch engaged)]			
Option 1: 1C-[1L]-2C-2L-3L-4L-5L			
Option 2: 1C-[1L]-2C-2L-3L-4L-5L-6L			
ion Interface	Cab-mounted shift selector		
otocol - Engine/Vehicle Systems Interface	SAE J1939, IESCAN, PT-CAN		
	Allison 5th Generation Electronic Controls with closed loc [C = Converter mode (lockup clutch disengaged); L = Loc Option 1: 1C-[1L]-2C-2L-3L-4L-5L Option 2: 1C-[1L]-2C-2L-3L-4L-5L-6L	Allison 5th Generation Electronic Controls with closed loop adaptive shifts [C = Converter mode (lockup clutch disengaged); L = Lockup mode (lockup clutch engaged)] Option 1: 1C-[1L]-2C-2L-3L-4L-5L Option 2: 1C-[1L]-2C-2L-3L-4L-5L-6L sion Interface Cab-mounted shift selector	

	Installation Length*	Dry Weight	Depth below trans	Depth below transmission centerline	
	_		With Shallow Oil Sump	With Deep Oil Sump	
SAE No.3	729 mm	150 kg	272 mm	285 mm	
SAE No.2	739 mm	150 kg	272 mm	285 mm	

TURBINE-DRIVEN POWER TAKE-OFF PROVISION	
PTO drive	Torque converter turbine-driven spur gear
PTO mounting pads	Six-bolt, 3 o'clock and 9 o'clock positions (as viewed from rear)
PTO drive gear rating (continuous operation)	Using one PTO: 339 N∙m
	Total using two PTO's: 271 N•m
PTO drive gear ratio	1.00 x turbine speed
PTO drive gear	64 tooth

OIL SYSTEM	
Allison approved fluids: TES 295 and TES 389	
Capacity, excluding external circuits	
With Deep Oil Pan	14 litres
With Shallow Oil Pan	12 litres
Spin on canister filter	Standard

SPEEDOMETER PROVISION Description Non-zero-crossing square wave 8. 16 or 40 pulses per revolution of transmission output shaft

8, 16 or 40 pulses per revolution of transmission output shaft Location Electronic output from TCM

TACHOGRAPH PROVISION

Tone wheel 6-tooth

Mounting M18 x 1.5 metric thread

Location Transmission rear cover

2500/2550 Series





