

6600 Series

RATING	S					
Model		Input Power gross	hp (kW) net	Input Torque gross	lb-ft (N•m) net	Turbine Torque Net lb-ft (N•m)
H6620	Rear Dump Truck, Coal Hauler, Articulated Dump Hauling Applications	760 (567)	710 (529)	2500 (3390)	2270 (3078)	3790 (5139)
M6620	General	760 (567)	710 (529)	2500 (3390)	2270 (3078)	3790 (5139)
	Oil Field	900 (671)	850 (634)	2750 (3729)	2300 (3118)	4000 (5423)
	Crash Truck (ARFF Vehicle)	1025 (764)	975 (727)	3300 (4474)	3000 (4068)	5200 (7050)
	Agricultural Tractor	700 (522)	650 (485)	2000 (2712)	1860 (2522)	3340 (4528)
S6620	Stationary Applications	760 (567)	710 (529)	2500 (3390)	2270 (3078)	3790 (5139)
	Oil Field Equipment	900 (671)	850 (634)	2750 (3729)	2600 (3525)	4000 (5423)
DRIVET	RAIN INTERFACES					
Acceptab	le full-load engine governed speed					1900 – 2500 rpm
Minimum	engine idle speed range (with transmission	n in Drive)				550 rpm
MOUNT	ING					
Direct	SAE No.1 automatic flywheel housing with f and transmission rear cover mounting	•	0 0	, ,	nounting pads	

Remote Side pads on transmission rear cover, plus front trunnion mount

TORQUE CONVER	RTER		MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication)		
Type Inclu	One stag des standard integral damper w	e, three element, polyphase. hich is operational in lockup.	Range		
Model	Stall Torque Ratio	Kp-Factor* at Stall	First	4.00 : 1	
TC-680	2.08	54.6 (46.9)	Second	2.68 : 1	
TC-682	1.77	43.7 (37.5)	Third	2.01 : 1	
TC-683	1.85	35.1 (30.1)	Fourth	1.35 : 1	
	ue converter capacity. Kp = the		Fifth	1.00 : 1	
speed [rpm] divided b	y the square root of the pump to	orque [lb-ft (N•m)]	Sixth	0.67 : 1	
			Reverse 1	-5.15 : 1	
			Reverse 2	-3.46 : 1	
			Ratio Coverage		
			Forward	5.97	

Description

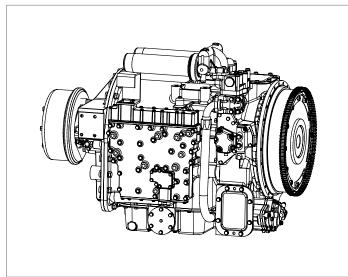
Automatic electronic, manual electric, manual hydraulic

Side mount						
Location				5 o'clock position, as viewed from rea		
PTO drive gear	ating	Intermittent			46 tooth drive gear, 200 hp (149 kV	
		Continu	lous	46 tooth o	46 tooth drive gear, 125 hp (93 kW	
Top Mount						
Location				12 o'clock pos	sition, as viewed from re	
PTO drive gear i	ating	Intermi	ttent	46 tooth dr	46 tooth drive gear, 200 hp (149 k)	
		Continu	lous	46 tooth o	46 tooth drive gear, 125 hp (93 k)	
ELECTRONIC SP	EEDOMETER PROVISION		OUTPUT RE	TARDER PROVISION (OPTIO	N)	
Description	LS-TTL signal, 39 pulses per o	utput shaft revolution	Туре		Integral, hydrau	
Location	Output signal fro	om transmission TCM	Capacity	Torque	Power	
			1500 lb-ft (2034 N•m)		600 hp (447 kV	
SIZE						
Depth (below horizo	ntal centerline)				20.1 in (511 mr	
			Basic		With Retard	
Length (direct moun	th (direct mount) ^{2,3}		43.1 in (1095 mm)	46.6 in (1182 mr	
Width			28.6 in (726 mm)	31.7 in (805 mr	
			Height		Dry Weig	
Basic model	ic model		34.1 in (866 mm)	2200 lb (998 k	
With direct mount fill	ers		38.7 in (982 mm)	2200 lb (998 kg	
With top engine-driv	en PTO drive gear				2230 lb (1012 k	
With park brake (12"	x 5")				2260 lb (1025 k	
With remote mount					2255 lb (1023 k	
With retarder					2365 lb (1073 k	
OIL SYSTEM						
Oil type			TES	3439, (See " <u>www.allisontransmiss</u>		
Capacity excluding	external circuits				18.0 gallons (68 litre	
Main circuit oil filter						
Standard			Manifold	for full-flow, remote mounted, Rep	-	
Optional				Direct-mount full flow	roplacable elemente	

1. PTO ratings apply to both top and side. Combined totals cannot exceed individual ratings. 2. For remote mounting, add 10-11 in (254–279 mm), depending on flange selection.

3. Length is approximate from engine/converter mounting surface to face of typical output flange.

6600 Series



Information or specifications subject to change without notice or obligation.