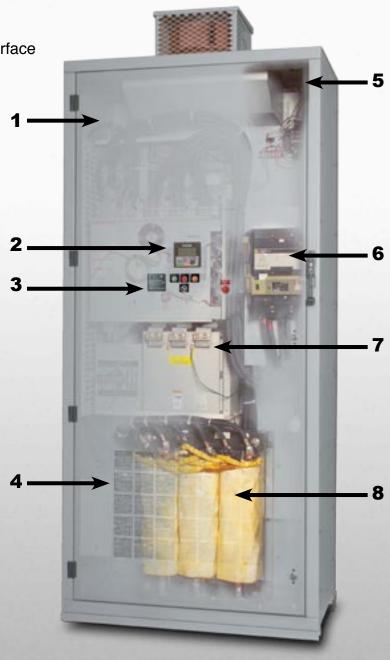
ADJUSTABLE SPEED DRIVES



Toshiba W7

In Water and Wastewater applications, users need reliable and efficient adjustable speed drives that do not contribute significant harmonic content to the power grid. The W7 meets those needs. The W7 is the newest addition to the Toshiba 7-Series family—offering the latest technology and proven reliability.

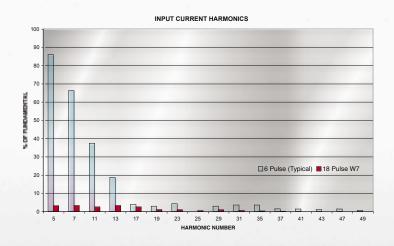
- Patented 18 Pulse Design*
- Small Footprint
- · Powerful, User-Friendly Operator Interface
- Variety of Communication Options
- 1. Small Footprint with Uniform 24" Depth
- 2. User-Friendly
 Electronic Operator
 Interface
- 3. Variety of User Configurable Options
- 4. Gasketed and Filtered Enclosure Force Ventilated
- 5. Top or Bottom Cable Entry/Exit
- 6. 65,000 AIC Breaker
- Proven Toshiba ASD Technology
- 8. Integrated Phase-Shifting Transformer

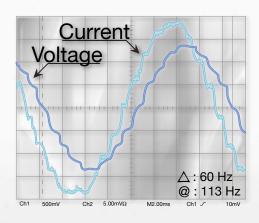


The Drive Solution for

Total Harmonic Distortion (TDHE) can come from many sources, including computers, fluorescent lights, copiers and six pulse drives. The W7, with Toshiba's patented 18 Pulse Autotransformer design, removes this concern.

- Meets IEEE 519 Guidelines without Added Filters
- Produces a Ripple Free Voltage on DC Bus
- Clean Sinusoidal Input Current Waveform
- Up to 60% Reduction in Transformer Losses



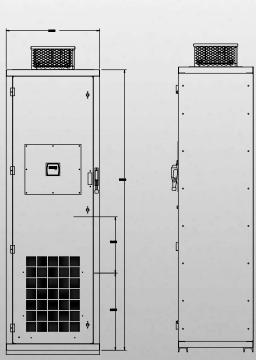


Small Footprint

The high cost of real estate and constraints of existing facilities make size an important consideration in drive selection.

- 400 HP Drive Only 42" Wide
- 24" Depth on All Sizes
- Integrated Phase-Shifting Autotransformer
- Saves Real Estate on New Designs
- Easier Replacement of Old Drives in Existing Facilities
- 60-200 HP: 100"H x 30"W x 24"D
- 250-400 HP: 100"H x 42"W x 24"D
- 500-800 HP: Consult Factory

(Addition of a bypass option will increase enclosure size)



^{*} US Patent 6396723 JP Patent 2000-179543 (Pending)

Water and Wastewater

Powerful, User-Friendly Operator Interface

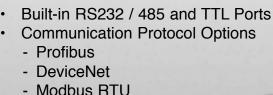
The W7 advanced Electronic Operator Interface (EOI) is so intuitive the manual is usually not needed to make drive setting adjustments. The W7 features menu driven programming as well as direct access to all of the parameters. A built-in encoder makes programming quick and easy.

- Easy Start-up Wizard
- Remote Mount up to 1,000 Feet
- · Real Time Clock Option
- Flash Upgradeable EOI Software
- Display multiple parameter simultaneously
- Standard Keypad Design for Low Voltage and Medium Voltage Drives



Variety of Communication Options

In today's fast-paced manufacturing world, coordinated systems require communications from drive-to-drive and drive-to-system. Built-in ports and a variety of option cards provide versatility in communication selection.



- Modbus+
- Metasys
- TCP/IP Ethernet



Meets or Exceeds Your Specifications

W7 Specifications

Standard Specifications													
Item													
Voltage Class	460V												
Maximum HP	60	75	100	125	150	200	250	300	400	500	600	700	800
Drive Rating (A)	77	96	124	156	190	240	302	370	480	628	753	879	1004
Dimensions			100"H x 30	0"W x 24"[)		100"F	1 x 42"W	x 24"D		Consul	t Factory	
				Pov	wer Req	uiremer	nts						
Output Frequency	0 – 400 l	Hz											
Main Circuit	Three Phase 460V input auto-transformer 18 pulse design with circuit breaker, IGBT output.												
Control Power	DC bus control power												
Tolerance	Voltage: ±10% Frequency: ±2%												
			,		trol Spe	ecification	ons						
Control Method	Sine Wa	ve PWM s	System - F			ector Contr							
V/Hz Control	1					ector, Auto		Torque B	onst 5 no	int V/Hz cı	istom curv	/AS	
Overload Rating	1		nds, 100%		<u> </u>	otol, Auto	OI Wanuai	TOTQUE D	003i, 3 po	1111 4/112 00	istorii curv	763	
Frequency Setting	1					V, ±10V, 4-	20mA Bir	any Innut	Motorizo	d Potention	notor Inni	ı+	
Frequency Precision	1					cy. Digital							
· · ·						ıt. 10-12 bi			MITIUITI OU	tput neque	псу		
Frequency Resolution	1	0 seconds		J. 1 FIZ - A	naiog iripu	11. 10-12 01	LA-D CONV	erter					
Acceleration / Deceleration	+												
Speed Regulation	+		speed rang	-	200/								
Torque Regulation			ripple fro				/Lower De	istian Lin	oito Foodl	and Cour	na Dalau E	iltar Food	haali
Set Point Control (PID)	Proportional Gain, Integral Gain, Feedback Settings Upper/Lower Deviation Limits, Feedback Source Delay Filter, Feedback Settings Differential Gain												
Analog Inputs	Four pro	grammab	le: (1) 4-20	0mA, (1) 0	-10V, (1) -	10 to +10V	[/] , (1) 1 to 1	0kOHM p	otentiome	ter connec	tion		
Analog Outputs	Two prog	grammabl	e to 31 fur	ctions									
Digital Inputs	Eight pro	ogrammat	ole to 67 fu	nctions									
Output Contacts	Three ou	utput term	inals, prog	rammable	to 52 fund	tions. For	m C contac	cts rated 2	250V AC, 2	2 amps inc	uctive		
Signal Isolation	Available	e (3) chan	nel signal	isolation fo	or AM/FM	outputs an	d II termina	al input, ra	ated at 750	V			
Control Board Communication Ports	RS232 / 485 and TTL ports standard												
Data Transmission	Profibus, Devicenet, Modbus RTU, Modbus+, Metysys, TCP/IP Ethernet. (Some devices are external)												
Main Protective Functions				•		•				_		t, heatsink or, loss of f	
Soft Stall	Automat	ic load red	duction cor	ntrol during	g overload								
Retry	Can auto	matically	clear fault	upon trip.	Programn	nable to 10	tries, with	up to 10	seconds b	oetween tr	es.		
Restart	Restart i	nto a rota	ting motor										
					Inter	face							
LCD EOI (Liquid Crystal Display / Electronic Operator Interface)						ity to displa adeable. Ir		•			eypad ma	y be opera	ated from
LED Indicators						n), DC bus			red)			7.4	10.00
Keys	Local /Remote, Monitor / Program, Run, Enter, ESC, Stop / Reset, Up, Down												
Monitoring Selectable Display Units	Main display shows two monitored items continuously, or scrolls up to 40 items. User selectable and configurable, along with scaling factor multiplier. Voltage display selectable: Amps or %, Current display selectable: Amps or %.												
EOI Communication Ports			TTL ports s							10.10	1 1 1 1 1 1		
Remote Mount Display			e up to 100										
					Constr	uction							
Enclosure	NEMA 1	, IP20. Ga	sketed an	d Filtered							F		
Panel Construction					top or bot	ttom acces	s for moto	r and pow	er cables				
Cooling	Forced a	air cooled.				noved for r				installatior			
Color	ANSI-61	Gray											
				An	iblent C	onditio	ns						
Ambient Temperature		, 32 - 104		An	iblent C	onditio	ns				50- 3		
Humidity	Max. 959	% (non-cc	ndensing)			onditio	ns						
Humidity Altitude	Max. 959	% (non-co (3300 ft) a	ndensing) bove sea	level or les	SS								
Humidity	Max. 959	% (non-co (3300 ft) a	ndensing) bove sea	level or les	SS	ases, explo		6					

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Product Warranty

Toshiba offers a comprehensive warranty program on its full line of industrial products. Consult your salesperson or the factory for specific information.

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ADJUSTABLE SPEED DRIVES MOTORS CONTROLS UPS INSTRUMENTATION PLC

TOSHIBA

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