XSine Inverter V-Series — Standard Specifications

	Inverter V-Series Model:	VET4-355B	VET4-375B	VET4-411B	VET4-415B	VET4-418B	VET4-422B	VET4-430N	VET4-437N	VET4-445N	VET4-455N	VET4-475N	VET4-490N	VET4-511N	VET4-513N	VET4-516N	VET4-518N	XET4-520N	XET4-522N	VET4-525N	VET4-530N
Output Characteristics	Maximum Motor Output (KW)	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	185	200	220	250	315
	Maximum Motor Output *(HP)	7.5	10	15	20	25	30	40	50	60	75	100	125	150	175	200	250	275	300	350	450
	Rate output current (A)	13	17	24	31	41	52	65	80	96	128	146	175	204	264	312	380	420	450	515	675
	Max. Output Voltage (V)	3-phase,380/400/415/440/460V (proportional to input voltage)																			
	Rate Output Frequency	Up to 400Hz available by programming																			
Power Supply	Rate Input Voltage and Frequecy	3-phase,380/400/415/440/460V 50/60Hz																			
	Allowable Voltage Fluctuation	-15% to +10%																			
	Allowable Frequency Fluctuation	± 5%																			
Control Characteristics	Control Method	Sine wave SVPWM																			
	Operation Function	PID Control, Up-Down Operation, 2-3Wire operation, built-in Potentiometer																			
	Frequency Control Range	0.1 to 400 Hz																			
	Frequency Accuracy	Digital reference: ± 0.01%(-10 to 50 °C), Analog reference: ± 0.1Hz (25 ± 10 °C)																			
	Frequency Setting Resolution	Keypad operator reference: 0.1 Hz, Analog reference: 0.1 Hz																			
	Output Frequency Resolution	0.1 Hz																			
	Frequency Reference Signal	0 to 10 VDC (20kΩ), 4 to 20mA (250Ω)																			
	Accel/Decel Time	0.0 to 3600 sec. (accel/decel time are independently programmed)																			
	Braking Torque	Approx.20% up to 125%with option braking resister					Approx.20%(Approx. 100% with option braking units and braking resister)														
	No. V/f Patterns	15 preset V/f patterns, 1 custom V/f with voltage limit, 1 custom without voltage limit																			
Protection Functions	Motor Overload Protection	Protected by electronic thermal overload relay																			
	Instantaneous Overcurrent	Motor coasts to stop at approx. 200% of inverter rated current			Motor coasts to stop at approx. 180% of inverter rated current																
	Overload	Motor coasts to stop after 1 min. at 150%of rated output current			Motor coasts to stop after 1 min. at 120% of rated output current																
	Overvoltage	Motor coasts to stop if DC bus voltage exceeds 820 V																			
	Undervoltage	Motor coasts to stop if DC bus voltage drops to 380V or below																			
	Momentary Power Loss	Immediate stop after 15 ms or longer power loss. (Factory setting Continuous operation during power loss less than 0.5sec is equipped as standard)																			
	Heatsink Overheat	Protected by electronic circuit																			
	Stall prevention Level	Stall prevention during accel/decel and constant speed operation																			
	Ground Fault	Provided by electronic circuit																			
	Power Charge Indication	Charge LED stays on until voltage drops below 50 VDC																			
Input Output Signals	Multifunction Input	Eight of the following input signals are selectable:Forward/Reverse run (3-wire sequence), fault reset,external fault (NO/NC contact input), multi-step speed operation, Jog command, accel/decel Hold, External Baseblock, PID control, External overheat alarm.																			
	Multifunction Output	Following output signals are selectable (2 NO/NC contact output): Fault, running, frequency, detection overtorque detection, baseblock, inverter ready, fault retry																			
Display	Status Indicator LEDs	16 status LED, RUN and Remote provided as standard LEDs																			
	Keypad Operator	Potentiometer, 7-keys, 4-digits 7-segment LED,Available to motor frequency referance, Output frequency, current-Voltage input/output.																			
Environmental Conditions	Enclosure	IP20																			
	Cooling Method	Cooling fan																			
	Location	Indoor (free from corrosive gases or dust)																			
	Ambient Termperature	-10 to +40 °C																			
	Storage Temperature	-20 to +60 °C																			
	Humidity	95%RH or less (non-condensing)																			
	Vibration	Up to 9.8 m/s2 (1G) at 10 to less than 20 Hz Up to 2m/S2 (0.2G) at 20 to 50 HZ																			
Physical	Frame Size	F2	F2	F2	F3	F3	F3	F4	F4	F5	F5	F5	F6	F6	F7	F7	F7	F8	F8	F9	F9
	Weight (kg)	6.4	6.6	7.0	7.2	9.2	9.5	21	21	56	56	58	70	70	84	84	88	-	-	-	-

* Based on a standard 4-poles motor for max. applicable motor output.