



# Variable Frequency Drive

## Submersible Motor AC Controller

### FEATURES:

- Pump Shift Operation
- Water Usage Detection
- Water Shortage Detection
- Over Pressure Protection
- Noise Prevention
- Overheat Warning



The Strom Ultra Drive series VFD controllers are the ultimate solution for submersible pump motors. These controllers are specifically designed to control the Strom Ultra Torque submersible pump motors yet can be easily adapted to other brands and applications. Smart period constant pressure adjustment in the water supply can set water supply pressure according to daily routines and automatically adjust the water supply pressure during peak/non-peak hours in order to save energy, reduce leakage and protect the pipeline. Eight periods can be set at most, with the longest cycle period being one week; a gradient adjustment function is also available.

### 3 Phase 230v Series

MODEL NAME (VFD-XXXX-ECT)	102	202	302	502	752	1002	1502	2002	2502	3002	4002	5002	6002	7502	10002	12502	15002	20002	25002
Maximum applicable motor (HP / kW)	1/0.75	2/1.5	3/2.2	5/3.7	7.5/5.5	10/7.5	15/11	20/15	25/18.5	30/22	40/30	50/37	60/45	75/55	100/75	125/90	150/110	200/160	250/200
Rated output capability (kVA)	1.6	2.6	3.8	6.8	9.5	12	16	22	28	34	43	55	67	83	105	132	154	223	267
Rated output current (A)	4.2	6.8	10	15.2	25	31	42	58	74	90	112	144	175	218	275	346	405	585	700
Rated output voltage (V)	Three Phase 200-240V																		
Range of output frequency (Hz)	0.1-120.00Hz																		
Power source (V, Hz)	Three Phase 200-240V 50/60Hz																		
Input current (A)	5	8	12	18	30	41	55	66	85	103	128	176	200	240	280	330	380	550	660
Permissible AC power source fluctuation	176-264V 50/60Hz +/-5%																		
Overload protection	120% of drive rated output current for 1 minute																		
Cooling method	Passive cooling	Fan cooling																	
Protective structure	IP20														IP00 (IP20 Optional)				
Weight /Mass (Lbs)	4	4	4	4.5	6.5	6.5	12	12.3	27.3	28.8	32.5	32.5	88	90.3	97	134.5	196	361	361

\*The weight illustrated in the standard specifications of the VFD-XXXX-ECT does not include the weights of AC line filter (ACL) and the DC reactor (DCL)

### 3 Phase 460v Series

MODEL NAME (VFD-XXX-ECT)	104	204	304	504	704	1004	1504	2004	2504	3004	4004	5004	6004	7504	10004	12504	15004	17504	42004	25004	30004	35004	42004	50004	60004	70004
Maximum applicable motor HP	1	2	3	5	7	10	15	20	25	30	40	50	60	75	100	125	150	175	200	250	300	350	420	500	600	700
Maximum applicable motor KW	.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200	250	250	315	375	450	500
Rated output capability (kVA)	1.9	2.7	3.7	6.1	8.4	13	17	23	28	34	43	56	66	82	105	134	160	193	232	287	316	366	446	533	655	732
Rated output current (A)	2.5	3.5	4.8	8	11	17	22	30	37	45	56	73	87	108	138	176	210	253	304	377	415	480	585	700	860	960
Rated output voltage (V)	Three Phase 200-240V																									
Range of output frequency (Hz)	0.1-120.00Hz																									
Power source (V, Hz)	Three Phase 200-240V 50/60Hz																									
Input current (A)	3	4.2	5.8	9.6	13	20	25	38	42	52	64	84	100	130	155	177	196	217	282	355	385	440	540	650	800	900
Permissible AC power source fluctuation	176-264V 50/60Hz +/-5%																									
Overload protection	120% of drive rated output current for 1 minute																									
Cooling method	Passive cooling	Fan cooling																								
Protective structure	IP20															IP00 (IP20 Optional)										
Weight (Lbs)	4	4	4.2	4.5	4.5	6.8	12	12.3	12.5	12.8	28.2	28.5	33	33.75	97	99	103.5	143.3	200.5	209.5	214	350.5	359.3	478.5	478.5	600



Submersibles and Electric, Inc.  
 2664 S Litchfield Rd  
 Goodyear AZ 85338  
**888-938-3783**  
[www.SEIpumps.com](http://www.SEIpumps.com)