

SINOVO SD60 VFD

PRODUCT OVERVIEW

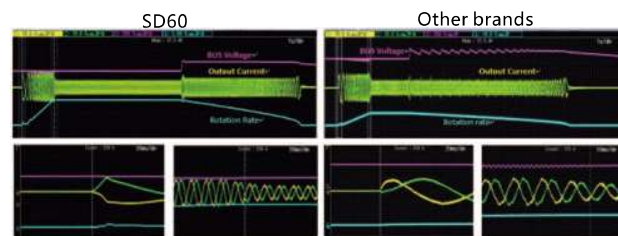
- ▶ A new generation of general-purpose economic mini VFD, which can be used to control asynchronous AC induction motors
- ▶ The VFD adopts space voltage vector control technology, use DSP control system to strengthen the reliability and stability of products
- ▶ Support two control modes: V/F control, sensorless vector control (SVC)
- ▶ Automatic torque boost and slip compensation
- ▶ Fast acceleration and deceleration performance
- ▶ Start-up 0.5Hz provides 150% torque
- ▶ The full speed range runs smoothly, and the steady speed accuracy is less than 0.5%
- ▶ Anti-electromagnetic interference ability meets IEC 61800-3-C3 standard
- ▶ Adapt to grid voltage range 200V ~ 480V
- ▶ The circuit board is thickened with anti-paint treatment, suitable for high temperature, high humidity, dust and other harsh environments
- ▶ Built-in RS485 communication
- ▶ Support external keypad



Key performance comparison with mainstream brands VFD in the market

The same motor, the same setting parameters (acceleration 0.1 seconds, deceleration 1 second) performance comparison results:

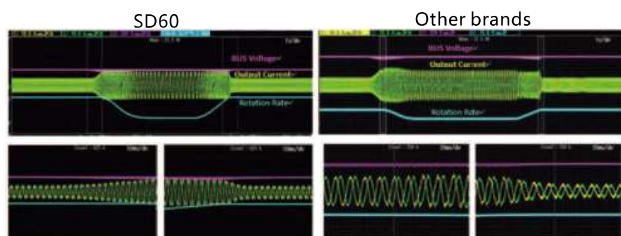
Acceleration waveform



Acceleration time is 1.06s. Short acceleration time, accurate current control

Acceleration time is 1.21s. Acceleration time is long, current control response is slow

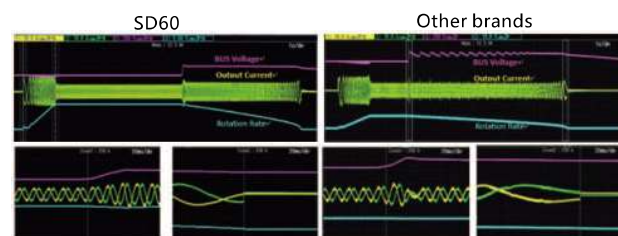
150% load waveform suddenly added and suddenly removed



Fast dynamic response, perfect current limiting and straightness

The dynamic response is slow, and the current waveform oscillates, current limit point fluctuates greatly

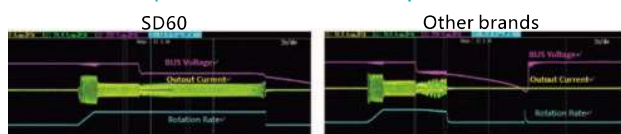
Deceleration waveform



The deceleration time is 3.94s, the bus voltage control is stable and straight, and the current waveform is smooth

The deceleration time is 5.25s, the bus voltage oscillates, the output current fluctuates greatly, and the motor has abnormal noise

Instantaneous power failure VFD non-stop waveform



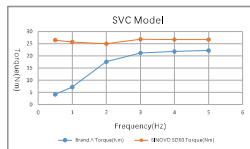
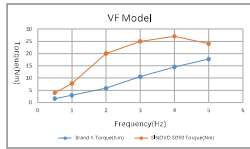
After a power failure, the VFD not stop for 10s, and the motor stops stably

After a power failure, the VFD not stop for 3s, an undervoltage alarm is reported, and the motor stops

PRODUCT FEATURES

High torque at low speed

150% starting torque and 0.5Hz low speed control improve equipment low speed control performance



Multiple programmable IO terminals

VFD provides multiple programmable digital and analog input and output terminals to meet different applications



DI1	DI2	AI0	ON/OFF	DI1	DI2	DI3	DI4	DI5	DI6	DI7	DI8	DI9	DI10	DI11	DI12	DI13	DI14	DI15	DI16	DI17	DI18	DI19	DI20	DI21	DI22	DI23	DI24	DI25	DI26	DI27	DI28	DI29	DI30	DI31	DI32	DI33	DI34	DI35	DI36	DI37	DI38	DI39	DI40	DI41	DI42	DI43	DI44	DI45	DI46	DI47	DI48	DI49	DI50	DI51	DI52	DI53	DI54	DI55	DI56	DI57	DI58	DI59	DI60	DI61	DI62	DI63	DI64	DI65	DI66	DI67	DI68	DI69	DI70	DI71	DI72	DI73	DI74	DI75	DI76	DI77	DI78	DI79	DI80	DI81	DI82	DI83	DI84	DI85	DI86	DI87	DI88	DI89	DI90	DI91	DI92	DI93	DI94	DI95	DI96	DI97	DI98	DI99	DI100	DI101	DI102	DI103	DI104	DI105	DI106	DI107	DI108	DI109	DI110	DI111	DI112	DI113	DI114	DI115	DI116	DI117	DI118	DI119	DI120	DI121	DI122	DI123	DI124	DI125	DI126	DI127	DI128	DI129	DI130	DI131	DI132	DI133	DI134	DI135	DI136	DI137	DI138	DI139	DI140	DI141	DI142	DI143	DI144	DI145	DI146	DI147	DI148	DI149	DI150	DI151	DI152	DI153	DI154	DI155	DI156	DI157	DI158	DI159	DI160	DI161	DI162	DI163	DI164	DI165	DI166	DI167	DI168	DI169	DI170	DI171	DI172	DI173	DI174	DI175	DI176	DI177	DI178	DI179	DI180	DI181	DI182	DI183	DI184	DI185	DI186	DI187	DI188	DI189	DI190	DI191	DI192	DI193	DI194	DI195	DI196	DI197	DI198	DI199	DI200	DI201	DI202	DI203	DI204	DI205	DI206	DI207	DI208	DI209	DI210	DI211	DI212	DI213	DI214	DI215	DI216	DI217	DI218	DI219	DI220	DI221	DI222	DI223	DI224	DI225	DI226	DI227	DI228	DI229	DI230	DI231	DI232	DI233	DI234	DI235	DI236	DI237	DI238	DI239	DI240	DI241	DI242	DI243	DI244	DI245	DI246	DI247	DI248	DI249	DI250	DI251	DI252	DI253	DI254	DI255	DI256	DI257	DI258	DI259	DI260	DI261	DI262	DI263	DI264	DI265	DI266	DI267	DI268	DI269	DI270	DI271	DI272	DI273	DI274	DI275	DI276	DI277	DI278	DI279	DI280	DI281	DI282	DI283	DI284	DI285	DI286	DI287	DI288	DI289	DI290	DI291	DI292	DI293	DI294	DI295	DI296	DI297	DI298	DI299	DI300	DI301	DI302	DI303	DI304	DI305	DI306	DI307	DI308	DI309	DI310	DI311	DI312	DI313	DI314	DI315	DI316	DI317	DI318	DI319	DI320	DI321	DI322	DI323	DI324	DI325	DI326	DI327	DI328	DI329	DI330	DI331	DI332	DI333	DI334	DI335	DI336	DI337	DI338	DI339	DI340	DI341	DI342	DI343	DI344	DI345	DI346	DI347	DI348	DI349	DI350	DI351	DI352	DI353	DI354	DI355	DI356	DI357	DI358	DI359	DI360	DI361	DI362	DI363	DI364	DI365	DI366	DI367	DI368	DI369	DI370	DI371	DI372	DI373	DI374	DI375	DI376	DI377	DI378	DI379	DI380	DI381	DI382	DI383	DI384	DI385	DI386	DI387	DI388	DI389	DI390	DI391	DI392	DI393	DI394	DI395	DI396	DI397	DI398	DI399	DI400	DI401	DI402	DI403	DI404	DI405	DI406	DI407	DI408	DI409	DI410	DI411	DI412	DI413	DI414	DI415	DI416	DI417	DI418	DI419	DI420	DI421	DI422	DI423	DI424	DI425	DI426	DI427	DI428	DI429	DI430	DI431	DI432	DI433	DI434	DI435	DI436	DI437	DI438	DI439	DI440	DI441	DI442	DI443	DI444	DI445	DI446	DI447	DI448	DI449	DI450	DI451	DI452	DI453	DI454	DI455	DI456	DI457	DI458	DI459	DI460	DI461	DI462	DI463	DI464	DI465	DI466	DI467	DI468	DI469	DI470	DI471	DI472	DI473	DI474	DI475	DI476	DI477	DI478	DI479	DI480	DI481	DI482	DI483	DI484	DI485	DI486	DI487	DI488	DI489	DI490	DI491	DI492	DI493	DI494	DI495	DI496	DI497	DI498	DI499	DI500	DI501	DI502	DI503	DI504	DI505	DI506	DI507	DI508	DI509	DI510	DI511	DI512	DI513	DI514	DI515	DI516	DI517	DI518	DI519	DI520	DI521	DI522	DI523	DI524	DI525	DI526	DI527	DI528	DI529	DI530	DI531	DI532	DI533	DI534	DI535	DI536	DI537	DI538	DI539	DI540	DI541	DI542	DI543	DI544	DI545	DI546	DI547	DI548	DI549	DI550	DI551	DI552	DI553	DI554	DI555	DI556	DI557	DI558	DI559	DI560	DI561	DI562	DI563	DI564	DI565	DI566	DI567	DI568	DI569	DI570	DI571	DI572	DI573	DI574	DI575	DI576	DI577	DI578	DI579	DI580	DI581	DI582	DI583	DI584	DI585	DI586	DI587	DI588	DI589	DI590	DI591	DI592	DI593	DI594	DI595	DI596	DI597	DI598	DI599	DI600	DI601	DI602	DI603	DI604	DI605	DI606	DI607	DI608	DI609	DI610	DI611	DI612	DI613	DI614	DI615	DI616	DI617	DI618	DI619	DI620	DI621	DI622	DI623	DI624	DI625	DI626	DI627	DI628	DI629	DI630	DI631	DI632	DI633	DI634	DI635	DI636	DI637	DI638	DI639	DI640	DI641	DI642	DI643	DI644	DI645	DI646	DI647	DI648	DI649	DI650	DI651	DI652	DI653	DI654	DI655	DI656	DI657	DI658	DI659	DI660	DI661	DI662	DI663	DI664	DI665	DI666	DI667	DI668	DI669	DI670	DI671	DI672	DI673	DI674	DI675	DI676	DI677	DI678	DI679	DI680	DI681	DI682	DI683	DI684	DI685	DI686	DI687	DI688	DI689	DI690	DI691	DI692	DI693	DI694	DI695	DI696	DI697	DI698	DI699	DI700	DI701	DI702	DI703	DI704	DI705	DI706	DI707	DI708	DI709	DI710	DI711	DI712	DI713	DI714	DI715	DI716	DI717	DI718	DI719	DI720	DI721	DI722	DI723	DI724	DI725	DI726	DI727	DI728	DI729	DI730	DI731	DI732	DI733	DI734	DI735	DI736	DI737	DI738	DI739	DI740	DI741	DI742	DI743	DI744	DI745	DI746	DI747	DI748	DI749	DI750	DI751	DI752	DI753	DI754	DI755	DI756	DI757	DI758	DI759	DI760	DI761	DI762	DI763	DI764	DI765	DI766	DI767	DI768	DI769	DI770	DI771	DI772	DI773	DI774	DI775	DI776	DI777	DI778	DI779	DI780	DI781	DI782	DI783	DI784	DI785	DI786	DI787	DI788	DI789	DI790	DI791	DI792	DI793	DI794	DI795	DI796	DI797	DI798	DI799	DI800	DI801	DI802	DI803	DI804	DI805	DI806	DI807	DI808	DI809	DI810	DI811	DI812	DI813	DI814	DI815	DI816	DI817	DI818	DI819	DI820	DI821	DI822	DI823	DI824	DI825	DI826	DI827	DI828	DI829	DI830	DI831	DI832	DI833	DI834	DI835	DI836	DI837	DI838	DI839	DI840	DI841	DI842	DI843	DI844	DI845	DI846	DI847	DI848	D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Seamless side-by-side installation

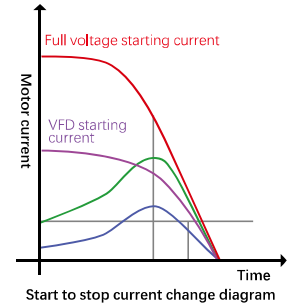
Support seamless side-by-side installation, saving installation space



Save installation space

Controlling Current Extends Motor Life

After the VFD is installed, the instantaneous current of the motor will not increase, which not only saves costs, but also makes the motor life longer.



PRODUCT FEATURES



Compressor



Sewage Treatment



Injection Molding Machine



Crusher



Blender



Forging Machine

PRODUCT MODEL&SPECIFICATION

VFD Model	Rated Capacity (KVA)	Rated Input Current (A)	Rated Output Current (A)	Adapter Motor (KW)
Single-Phase Power Supply 220v 50/60hz Range: -15% ~ 20%				
SD60-2S-0.7G	1.5	8.2	4	0.75
SD60-2S-1.5G	3	14	7	1.5
SD60-2S-2.2G	4	23	9.6	2.2
Three-Phase Power Supply 380v 50/60hz Range: -15% ~ 20%				
SD60-4T-0.7G	1.5	3.4	2.1	0.75
SD60-4T-1.5G	3	5	3.8	1.5
SD60-4T-2.2G	4	5.8	5.1	2.2
SD60-4T-4.0G	5.9	10.5	9	4.0
SD60-4T-5.5G	11	13.9	13	5.5