

# CONCEPT Intelligent Power Electronics

range of products

## SCALE-1 Driver Cores

	Gate current/A	Channels	Pout Channel	Voltage	Trafo	VPE	MOQ
1SD1548AI	48	1	15	1200/1700	Ring Core	10	10
2SD106AI	6	2	1	1200	Ring Core	25	25
2SD106AI-17	6	2	1	1700	Ring Core	25	25
2SD315AI	15	2	3	1200/1700	Ring Core	10	10
2SD315AI-25	15	2	3	2500	Ring Core	10	10
2SD315AI-33	15	2	3	3300	Ring Core	10	10
6SD106EI	6	6	1	1200	Ring Core	10	10
6SD106EI-17	6	6	1	1700	Ring Core	10	10
IHD260	6	2	1	1200/1700	Ring Core	24	24
IHD660	6	2	3	1200/1700	Ring Core	24	24
IGD616	16	1	6	1200/1700	Ring Core	24	24
IGD515EI	15	1	5	1200/1700	Ring Core	20	20
IGD515EI-34	15	1	5	3400	Ring Core	20	20

## SCALE-2 Driver Cores

	Gate current/A	Channels	Pout Channel	Voltage	Trafo	VPE	MOQ
1SC2060P2A0-17	60	1	20	1200/1700	Planar	12	12
2SC0108T2A0-17 (-20°C)	8	2	1.1	1200/1700	Ring Core	30	30
2SC0108T2B0-17	8	2	1.1	1200/1700	Ring Core	30	30
2SC0108T2C0-17 (long Pin)	8	2	1.1	1200/1700	Ring Core	30	30
2SD300C17A0	40	2	4	1200/1700	Ring Core	10	10
2SD300C17A0-T (coated)	40	2	4	1200/1700	Ring Core	10	10
2SC0435T2A0-17	35	2	4	1200/1700	Ring Core	15	15
2SC0435T2C0-17 (long Pin)	35	2	4	1200/1700	Ring Core	15	15
2SC0535T2A0-33	35	2	5	2500/3300	Ring Core	tbd	tbd
2SC0650P2A0-17	50	2	6	1200/1700	Planar	12	12

## SCALE-1 Plug & Play Driver

	Fitting Module Package*	Channels	Interface	Voltage Class	Topology**	VPE	MOQ
1SD210F2	V71),V3,V9	1	Straight Versat	4500/6500	2+M	20	1
1SD210F2 Opt.1	V71),V3,V9	1	Lateral Versatil	4500/6500	2+M	20	1
1SD210F2 Opt.2	V71),V3,V9	1	ST	4500/6500	2+M	20	1
1SD312F2	V3,V9	1	Versatile Link	4500	2+M	20	1
1SD418F2(1.7kV)	M3,M9	1	Versatile Link	1700	2+M	20	1
1SD418F2(2.5/3.3kV)	V3,V9	1	Versatile Link	2500/3300	2+M	20	1
1SD536F2(1.2/1.7kV)	M3,M9	1	Versatile Link	1200/1700	2+M	20	1
1SD536F2(2.5/3.3kV)	V3,V9	1	Versatile Link	2500/3300	2+M	20	1
1SD536F2(1.2/1.7kV)Opt.1	M3,M9	1	ST	1200/1700	2+M	20	1
1SD536F2(2.5/3.3kV)Opt.1	V3,V9	1	ST	2500/3300	2+M	20	1
2SB315A	M3,M9	2	DIC20	1200/1700	2	6	1
2SB315B	M3	2	Versatile Link	1200/1700	2	6	1
2SB315B Opt.1	M3	2	ST	1200/1700	2	6	1
2SD316EI-122) needs DB01	ED	2	DIC20	1200	2	26	1
2SD316EI-172) needs DB01	ED	2	DIC20	1700	2	26	1
6SD312EI3) needs EB01	EP+	6	DIC40	1200/1700	2	20	1
DB01	ED	2	n.a.	1200/1700	n.a.	26	1
EB01	EP+	6	n.a.	1200/1700	n.a.	20	1

## DC/DC Converter

	Isolation Voltage	Voltage out	Power out	Voltage Class	Fitting to Driver	VPE	MOQ
ISO3116I-45	7.4kV	16.4V	3W	4500	1SD312F2	6	1
ISO3116I-65	10.2kV	16.4V	3W	6500	1SD210F2	6	1
ISO3116I-100	15.2kV	16.4V	3W	10000	1SD210F2	6	1
ISO3116I-120	18.0kV	16.4V	3W	12000	1SD210F2	6	1
ISO5125I-45	7.4kV	25.0V	5W	4500	1SP0335x2M	6	1
ISO5125I-65	10.2kV	25.0V	5W	6500	1SP0335x2M	6	1
ISO5125I-100	15.2kV	25.0V	5W	10000	1SP0335x2M	6	1
ISO5125I-120	18.0kV	25.0V	5W	12000	1SP0335x2M	6	1

### SCALE-2 Plug & Play Driver

	Fitting Module Package*	Channels	Interface	Voltage Class	Topology**	VPE	MOQ
2SP0115T2A0 (-20°C)	ED	2	DIC20	1200/1700	2+P	26	1
2SP0115T2B0	ED	2	DIC20	1200/1700	2+P	26	1
2SP0320T2A0	PP	2	DIC20	1200/1700	2+P	16	1
2SP0320V2A0	PP	2	Versatile Link	1200/1700	2	16	1
2SP0320S2A0	PP	2	ST	1200/1700	2	16	1
◇ 1SP0635V2M	V3,V9,M3,M9	1	Versatile Link	1700/3300	M+P	20	1
◇ 1SP0635S2M	V3,V9,M3,M9	1	ST	1700/3300	M+P	20	1
◇ 1SP0635D2S	V3,V9,M3,M9	1	Direct Bus	1700/3300	M+P	20	1
◇ 1SP0335V2M	V3,V9	1	Versatile Link	4500/6500	M+P	20	1
◇ 1SP0335S2M	V3,V9	1	ST	4500/6500	M+P	20	1
◇ 1SP0335D2S	V3,V9	1	Direct Bus	4500/6500	M+P	20	1

### Cable and Accessories

	Fitting Module Package*	Pole/Channel	Addendum	IGBT Voltage Class	Fitting to Driver	VPE	MOQ
Cable Interface DIC-20	ED, PP	20	DIC-20/DIC-20	1200/1700	2SP0115/2SP0320	10	10
Cable for 2SD316/6SD312	ED,EP+		2(ED), 6(EP+)	1200/1700	2SD316/6SD312	10	10
Bolts+Screws for 2SD316/6SD312	ED,EP+		ED:4, EP+:8	1200/1700	2SD316/6SD312	10	10
◇ Cable Driver to DC/DC	V3,V9	4		4500/6500	1SD210/ISO3116	10	10
◇ Cable Power Supply 0.35 m, 4 Pin	V3,V9,M3,M9	4	Erni***	1200..6500	1SP0335/1SP0635	1	1
◇ Cable Power Supply 0.45 m, 4 Pin	V3,V9,M3,M9	4	Erni***	1200..6500	1SP0335/1SP0635	1	1
◇ Cable Power Supply 0.70 m, 4 Pin	V3,V9,M3,M9	4	Erni***	1200..6500	1SP0335/1SP0635	1	1
◇ Cable Power Supply 1,10 m, 4 Pin	V3,V9,M3,M9	4	Erni***	1200..6500	1SP0335/1SP0635	1	1
◇ Cable Master to Slave 0.30 m, 6 Pin	V3,V9,M3,M9	6	Erni***	1200..6500	1SP0335/1SP0635	1	1
◇ Cable Master to Slave 0.50 m, 6 Pin	V3,V9,M3,M9	6	Erni***	1200..6500	1SP0335/1SP0635	1	1
◇ Cable Master to Slave 0.70 m, 6 Pin	V3,V9,M3,M9	6	Erni***	1200..6500	1SP0335/1SP0635	1	1
◇ Cable Master to Slave 1.10 m, 6 Pin	V3,V9,M3,M9	6	Erni***	1200..6500	1SP0335/1SP0635	1	1
◇ Cable to DC/DC 1.00 m, 3 Pin	V3,V9	3	Erni***	3300..6500	ISO5125	1	1
◇ PCB Connector SMC 90°/180°, 3pin	V3,V9,M3,M9	3	Erni***	1200..6500	ISO5125	1	1
◇ PCB Connector SMC 90°/180°, 4pin	V3,V9,M3,M9	4	Erni***	1200..6500	1SP0635	1	1
◇ 2BB0108T-06/12/17	All	20	DIC20	600..1700	2SC0108T	1	1
◇ 2BB0435T-06/12/17	All	20	DIC20	600..1700	2SC0435T	1	1

### Note

◇ New Device/Neues Produkt	* Modul Package Matrix	EconoDual EconoPACK IHM 130 IHM 190 IHV 130 IHV 190 IHV 73 (cable needed) PrimePACK	** Topology	Multilevel Paralleling 2-Level	M P 2
↑ New Device under development					
*** NO High Voltage Insulation ! HV Cable insulation not provided and must be ensured by customer					