

IGBT Stacks & Driver Concept Scale Driver

click on part-no. to select datasheet

IGBT Driver Boards

IGBT Inverter Stacks

440 / 600 V

660 / 940 V

| part-no | chan-nels | V _{DC} average/peak |
|-----------------|-----------|------------------------------|
| IHD-1-DT 215 | 2 | 600/1000 |
| IHD-1-DT 280 | 2 | 600/1000 |
| IHD-1-DT 680 | 2 | 600/1000 |
| IHD-1-EP 680 | 2 | 800/1000 |
| IHD-1-EP 680-12 | 2 | 1000/1400 |
| IHD-3-CA 215 | 3*2 | 600/1000 |
| IHD-3-CA 280 | 3*2 | 600/1000 |
| IHD-3-CA 680 | 3*2 | 600/1000 |
| IGD-1-EP 608 | 1 | 800/1000 |
| IGD-1-EP 608-12 | 1 | 1000/1400 |
| IGD-1-EP 615 | 1 | 800/1000 |
| IGD-1-EP 615-12 | 1 | 1000/1400 |
| IGD-1-WP 508 | 1 | 1000/1400 |
| IGD-1-WP 515 | 1 | 1000/1400 |
| IGD-1-DT2 508 | 2 | 1000/1400 |
| IGD-1-DT2 515 | 2 | 1000/1400 |
| IGD-1-DT 508 | 2 | 2000/2500 |
| IGD-1-DT 515 | 2 | 2000/2500 |
| IGD-1-EP 508 | 1 | 2000/2500 |
| IGD-1-EP 515 | 1 | 2000/2500 |




| part-no | cooling mode | P _{OUT} kVA |
|------------------------|--------------|----------------------|
| B6I 440/600-460F-TE/O | F | 275 |
| B6I 440/600-710F-TE/O | F | 425 |
| B6I 440/600-830F-TE/O | F | 500 |
| B6I 440/600-1120F-TE/O | F | 670 |
| B6I 440/600-1250F-TE/O | F | 750 |
| B6I 440/600-780W-TE/O | W | 470 |
| B6I 440/600-1120W-TE/O | W | 670 |
| B6I 440/600-1380W-TE/O | W | 830 |
| B6I 440/600-1670W-TE/O | W | 1000 |
| B6I 440/600-2000W-TE/O | W | 1200 |
| B6I 1200/1700-120F-TO | F | 200 |

| part-no | cooling mode | P _{OUT} kVA |
|------------------------|--------------|----------------------|
| B6I 660/940-440F-TE/O | F | 410 |
| B6I 660/940-680F-TE/O | F | 640 |
| B6I 660/940-800F-TE/O | F | 750 |
| B6I 660/940-1060F-TE/O | F | 1000 |
| B6I 660/940-750W-TE/O | W | 700 |
| B6I 660/940-1060W-TE/O | W | 940 |
| B6I 660/940-1350W-TE/O | W | 1250 |
| B6I 660/940-1600W-TE/O | W | 1500 |

1200 / 1700 V

| | | |
|-----------------------|---|------|
| B6I 1200/1700 120F-TO | F | 200 |
| B6I 1200/1700 240F-TO | F | 400 |
| B6I 1200/1700 440F-TO | F | 750 |
| B6I 1200/1700 180W-TO | W | 300 |
| B6I 1200/1700 410W-TO | W | 700 |
| B6I 1200/1700 590W-TO | W | 1000 |

Shortform Catalog

| Driver Type | No. of Channels | Peak Current | IGBT V _{CE} | P _{out} /Channel | Packages |
|-------------|-----------------|--------------|----------------------|---------------------------|---|
| 2SD106A | 2 | +/-6A | 1200V | 1W |  |
| 2SD106AI-17 | 2 | +/-6A | 1700V | 1W | |
| 2SD315A | 2 | +/-15A | 1700V | 3W |  |
| 6SD106E | 6 | +/-6A | 1200V | 1W |  |
| 6SD106EI-17 | 6 | +/-6A | 1700V | 1W | |

click on buttons to change menu

IGBT Module Reference



Link to CT-Concept Technology - Ltd. Switzerland

SCALE Driver - Module / Driver Reference List (1200V)

| IGBT Module type | R _G | Driver | R _{Gmin} | IGBT Module type | R _G | Driver | R _{Gmin} |
|------------------|----------------|--------------|-------------------|------------------|----------------|----------|-------------------|
| BSM50GD120DLC | 18,0 | 6SD106AI | 18,0 | BSM100GB120DLC | 6,8 | 2SD106AI | 6,8 |
| BSM50GD120DN2 | 18,0 | 6SD106AI | 18,0 | BSM100GB120DN2 | 6,8 | 2SD106AI | 6,8 |
| BSM75GD120DLC | 12,0 | 6SD106AI | 12,0 | BSM150GB120DLC | 5,6 | 2SD106AI | 5,6 |
| BSM75GD120DN2 | 12,0 | 6SD106AI | 12,0 | BSM150GB120DN2 | 5,6 | 2SD106AI | 5,6 |
| BSM100GD120DLC | 6,8 | 6SD106AI | 6,8 | BSM200GB120DLC | 4,7 | 2SD315AI | 4,7 |
| BSM100GD120DN2 | 6,8 | 6SD106AI | 6,8 | BSM200GB120DN2 | 4,7 | 2SD315AI | 4,7 |
| FS300R12KF4 | 6,8 | 3 * 2SD315AI | 6,8 | BSM300GB120DLC | 3,3 | 2SD315AI | 3,3 |
| FS400R12KF4 | 2,4 | 3 * 2SD315AI | 2,4 | BSM200GA120DLC | 4,7 | 2SD315AI | 4,7 |
| F4-400R12KF4 | 2,4 | 2 * 2SD315AI | 2,4 | BSM200GA120DN2 | 4,7 | 2SD315AI | 4,7 |
| FF400R12KL4C | 3,6 | 2SD315AI | 3,6 | BSM300GA120DLC | 3,3 | 2SD315AI | 3,3 |
| FF400R12KF4 | 3,6 | 2SD315AI | 3,6 | BSM300GA120DN2 | 3,3 | 2SD315AI | 3,3 |
| FF600R12KL4C | 1,6 | 2SD315AI | 1,6 | BSM400GA120DLC | 2,7 | 2SD315AI | 2,7 |
| FF600R12KF4 | 1,6 | 2SD315AI | 1,6 | BSM400GA120DN2 | 2,7 | 2SD315AI | 2,7 |
| FF800R12KL4C | 1,8 | 2SD315AI | 1,8 | | | | |
| FF800R12KF4 | 1,2 | 2SD315AI | 1,2 | | | | |

R_G: Recommended module data sheet value
R_{Gmin}: Minimum allowed gate resistor (dimensioned by peak current)

SCALE Driver - Module / Driver Reference List (1700V and 600V)

| IGBT Module type | R _G | Driver | R _{Gmin} | IGBT Module type | R _G | Driver | R _{Gmin} |
|------------------|----------------|-------------|-------------------|------------------|----------------|----------|-------------------|
| BSM50GD170DL | 30,0 | 6SD106AI-17 | 30,0 | BSM100GD60DLC | 2,2 | 6SD106AI | 5,0 |
| BSM75GD170DL | 20,0 | 6SD106AI-17 | 20,0 | BSM150GD60DLC | 1,0 | 6SD106AI | 5,0 |
| BSM100GB170DL | 15,0 | 2SD106AI-17 | 15,0 | BSM200GD60DLC | tbd | 6SD106AI | 5,0 |
| BSM150GB170DL | 10,0 | 2SD106AI-17 | 10,0 | BSM100GB60DLC | 2,2 | 2SD106AI | 5,0 |
| BSM200GB170DL | 7,5 | 2SD315AI | 7,5 | BSM150GB60DLC | 1,0 | 2SD315AI | 1,7 |
| BSM200GA170DL(S) | 7,5 | 2SD315AI | 7,5 | BSM200GB60DLC | tbd | 2SD315AI | 1,7 |
| BSM300GA170DL(S) | 5,0 | 2SD315AI | 5,0 | BSM300GB60DLC | tbd | 2SD315AI | 1,7 |
| BSM400GA170DL(S) | 3,9 | 2SD315AI | 3,9 | | | | |
| FF400R16KF4 | 4,7 | 2SD315AI | 4,7 | | | | |
| FF600R16KF4 | 3,3 | 2SD315AI | 3,3 | | | | |
| FF400R17KF6B2 | 3,6 | 2SD315AI | 3,6 | | | | |
| FF600R17KF6B2 | 2,4 | 2SD315AI | 2,4 | | | | |
| FF800R17KF6B2 | 1,8 | 2SD315AI | 1,8 | | | | |

R_G: Recommended module data sheet value
R_{Gmin}: Minimum allowed gate resistor (dimensioned by peak current)