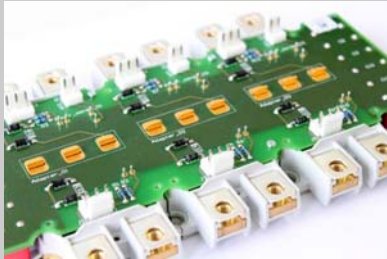


Power Modules



flowPHASE 2s

New Low Inductive Inverter Family

flowPHASE 2s enables high-performance switching for applications beyond 100 kW

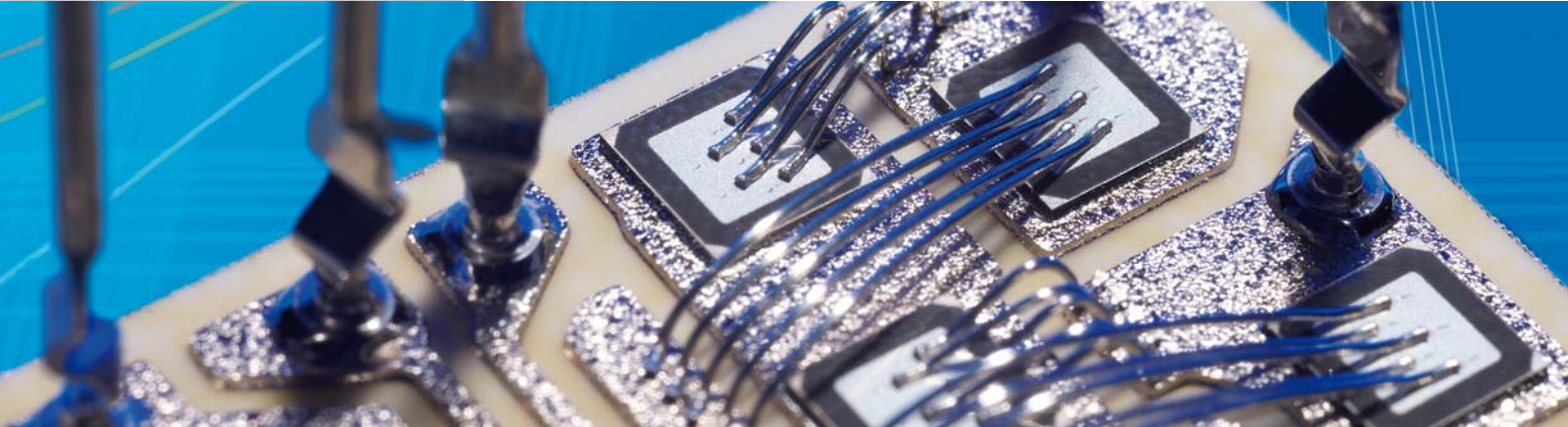
flowPHASE 2s is designed for fast-switching power applications like solar inverter, UPS and drives enabling high-performance switching for applications beyond 100 kW. These new modules provide an ultra-low inductive path for transient current.

Parasitic inductances are a major problem in power modules, particularly in fast-switching applications. To solve this problem, Vincotech has added an ultra-low inductive path for transient current to today's standard power module design. This reduces parasitic inductance in the new **flowPHASE 2s** to 7nH.

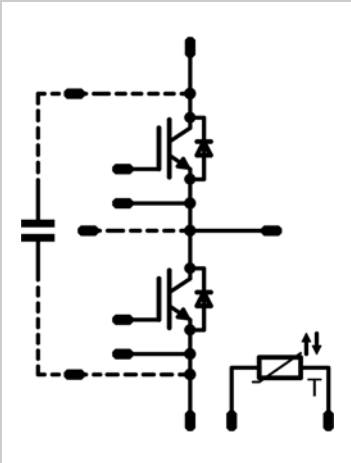
General Features:

Reduced DC link stray inductances courtesy of:

- Capacitors on board the PCB
- Added ultra-low inductive path with internal bridges
- Parallel connection of the 3 modules' DC link inputs
- Excellent symmetry of the power semiconductor
- Excellent symmetry of the gate signal
- Higher nondestructive short-circuit current
- Less voltage overshoot at high current cutoff
- Optional external capacitors enhance dynamic response
- Works at higher switching frequencies up to 20 kHz



Power Modules



The following table informs you about all variations of the *flow*PHASE 2s module available:

***flow*PHASE 2s Product Overview**

Part. No.:	Voltage	Current	Chip Type
70-S2062PA300SA-P815F	600 V	300 A	IGBT3
70-S2062PA400SA-P816F	600 V	400 A	IGBT3
70-S2122PA200FE-P818F20	1200 V	200 A	IGBT2Q Phantom Speed IGBT
70-S2122PA200SC-P818F	1200 V	200 A	IGBT4
70-S2122PA300SC-P819F	1200 V	300 A	IGBT4

*flow*PHASE 2s modules come in 17-mm high *flow*SCREW 2 housings measuring 117 mm by 64 mm. They are in serial production and samples are available via the standard sales channels. For further information please download our new film about *flow*PHASE 2s:

http://www.vincotech.com/products/new_products_landing.html

To learn more about Vincotech's power modules portfolio, please visit:

<http://www.vincotech.com>