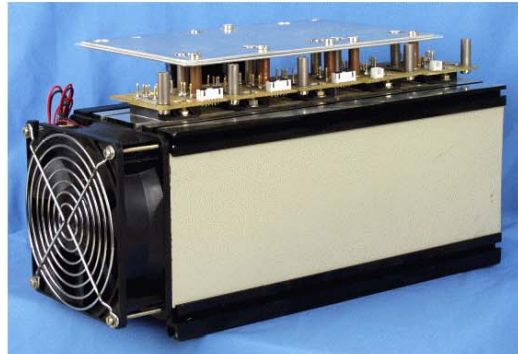


## GENERAL DESCRIPTION

The ECO-BLOCK™ consists of a Rectifier, Buck/Boost Converter and H-Bridge Inverter all mounted on a single force-cooled heatsink. The use of Powersem ECO-PAC™ modules offers a **weight** and **space saving** solution and an **improved power/weight ratio at a lower cost**. The DCB (Direct Copper Bonded) base of the Powersem ECO-PAC™ modules allows **optimum heat transfer** and makes the ECO-BLOCK™ highly efficient due to low thermal impedance, **reducing the heat sink size**.



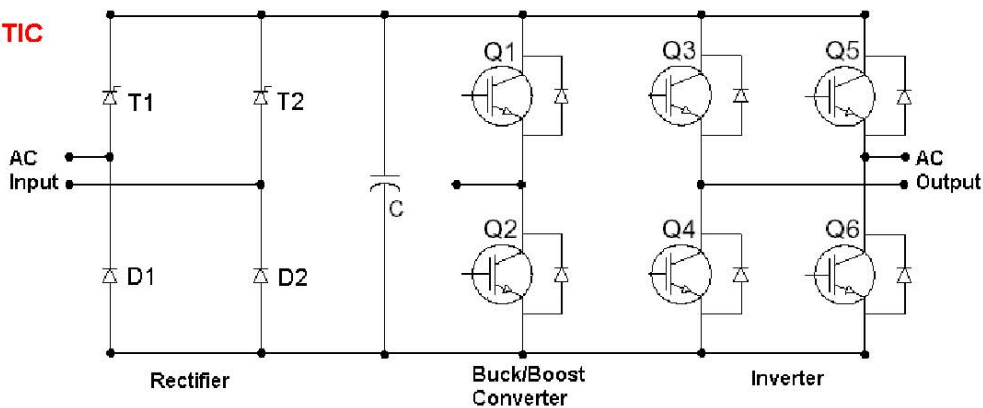
## FEATURES

- Input parameters – 230 V / Single phase
- Output parameters – 230 V / 20A / Single phase
- Battery charger – 110V / 20A / Buck converter
- DC Link voltage – 400 V / Boost converter
- Crest factor – 1:2
- Improved power/weight ratio
- Low-Inductance sandwiched bus-bar arrangement for DC Link

## APPLICATIONS

- UPS systems and Inverters
- AC Drives
- Power electronic Converters

## SCHEMATIC



**MAXIMUM RATINGS**

Symbol	Parameter	Condition	Value	Unit
$V_{in}$	Input Voltage	Maximum	280	V (ac)
$I_{in}$	Input Current	Maximum (Tc = 85°C)	40	A (ac)
$V_o$	Output Voltage	Maximum	230	V (ac)
$I_o$	Output Current	Typical (Tc = 85°C)	20	A(ac)
		Maximum (for 1 minute)	45	A (ac)
$I_{ch}$	Charger Current	Typical	10	A (dc)
$V_{dc}$	Charger Voltage	Typical	110	V (dc)

**PHYSICAL DIMENSIONS**

