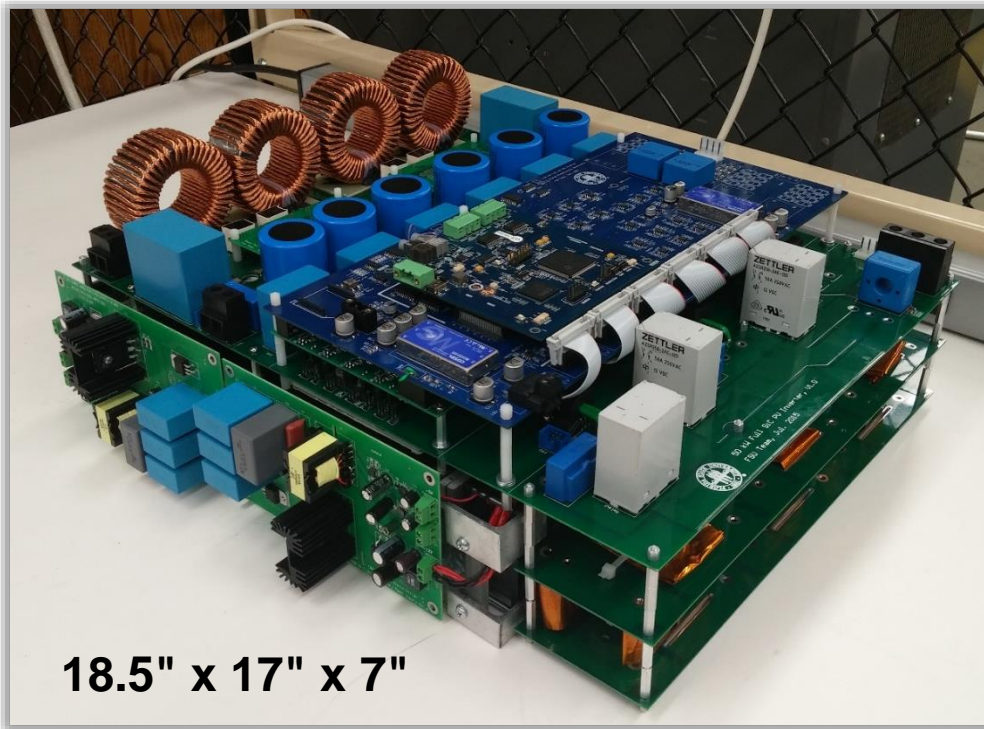


SiC PV Converter

50 kW/100kW transformerless PV Converter



Parameters		Values
Nominal output power		50 kW
MPPT voltage V_{in}		450 V-850V
Output voltage v_g		480 V rms Line-to-line
Output frequency		60 Hz
Cooling		Natural convection
Dimension		18.5" x 17" x 7"
Weight		20kg/44lb
Boost	switching frequency	75 kHz
	module	1200V SiC Boost
	inductance	400 μ H
indctr. size&weight		320 cm ³ , 716g
Inverter	switching frequency	50 kHz
	module	1200V SiC T-type
	ICT inductance	9.6 mH
	ICT leakage inductance	10 μ H
	ICT size&weight	154 cm ³ , 504 g
DC link capacitance C_1 & C_2		1.2 mF

50 kw: 22.7 W/in³, 2.5kW/kg Peak efficiency: 99.2% CEC efficiency: 99% Natural convection