



## INVC-MAK Series 20 kW Inverter

<http://www.mak-powersis.de/20-kw-invc-mak-series-inverter.html>

<b>Input</b>	Nominal Input Voltage	600 Volt
	Input Voltage Range	480 Volt – 600 Volt
	Battery Type	288 Cells – 300 Cells
	Battery Type	AGM or GEL or VRLA or Traction batteries

<b>Output</b>	Power kW	20 kW
	Voltage	400 Volt
	Optional Voltage	230 - 380 – 415 – 460 – 480 Volt
	Current	29.2 A
	Frequency	50 / 60 Hz.
	Efficiency	%96
	Harmonics	Linear Load <2% / Non Linear Load <3%

<b>Charger</b>	Technology	Precision Control with DSP
	Battery Charger Current	Adjustable Max. 37 A – Min. 15 A
	DC voltage settings range	Floating charge – 75 % – 125 % of UDC nominal at full load and nominal mains voltage (±10 %) High-rate charge – 75 % – 135 % of UDC nominal at full load and nominal mains voltage (0 / +10 %) Commissioning charge – 75 % – 140 % of UDC nominal at half load and nominal mains voltage (0 / +10 %)

<b>GENERAL</b>	Color	Black
	Overload Capacity	%20
	Battery Test	Programmable With Load, Automatic Battery Test
	Battery Temperature	20°C-25°C (For Maximum Efficiency)
	External Stop	Standard
	Input Protection	Thermionic Magnetic Circuit Breaker and software control
	Over Current Protection	MCCB & Software
	Parallel Operation	Optional
	Crest Factor	3:1
	Cooling Type	Air Cooled
	Remote Controller	50 Meter (Optional)
	Communication	DRY Contacts, SNMP, RS232, RS485, USB, MODBUS (Optional)
	Working Temperature	0C / +40C Celsius
	Protection Additional	Standard Information
	Over Current Protection	Via Software
	Voice (1m)	<60Db
	LCD	LCD Screen with buttons
Cooling Power	2050 Watt	
Working Altitude Max	1000 Meter and %1 Degradation for each hundred meter	

<b>INVERTER CABINET</b>	Dimension W x D x H	460 x 805 x 1190mm
	Weight Kg	125 Kg.
	Protection Class	IP20 or optional Marine / Offshore & Outdoor IP22, IP54