



MSc off-grid Inverters are the perfect choice for creating 3-phase 380-480V ac microgrid in power range 50kW-500kW. Standard 3 phase grid (neutral grounded) is created with special isolation transformers. These off-grid inverters are capable to supply even the "difficult" electric loads:

- 100% unbalanced loads
- direct on-line (DOL) starting motors
- non-linear loads
- no additional Active Filter needed

Off-grid Inverters are based on the newest converter technology using Silicon Carbide (SiC) modules. They are compact small-sized units which can easily be connected in parallel covering wide power range.

The inverter can be equipped with programmable controller platform for CANOPen interface (OPTION)

Subject to change without notice 26.10.2018

OPERATION

MSc off-grid Inverters are perfect choice for microgrid applications. With MSc off-grid inverters system integrators can easily provide three phase 380V-480V ac network for all kind of loads.

Off-grid Inverters with special MSc output transformers are capable to form stabilized output voltage which can supply even 100% unbalanced loads. Together with MSc off-grid Inverters and bidirectional DC/DC converters it is easy to provide hybrid solutions for different off-grid solar and energy storage applications.

TECHNICAL DATA

MODEL	100DCAC750ME
Topology and Technology	
6 pulse 2 level bridge with SiC modules	Off-Grid used with output transformer (not incl.)
Input	
DC Input Voltage	750Vdc nom., max 900Vdc
Output	
AC Output Voltage Range	380-480Vac, 50/60Hz
Nom. Output Current	100A
Nom. Output Power	70kVA
Efficiency	
Max. Efficiency	96
I/O Connections	
Potential free contact	Fault
Digital input	On/Off/Reset
Fieldbus (Option)	CAN-bus
General Data	
Dimensions (w x h x d) in mm	285 x 1190 x 344
Weight (kg)	60,5
Cooling	air cooled
Operation temperature	-10C...+40 C°
Enclosure	IP 20

STANDARDS COMPLIANCE

- Safety requirements for power electronic converter systems and equipment IEC 62477-1:2012
- EMC Immunity for industrial environments EN 61000-6-2
- Emission standard for industrial environments EN 61000-6-4
- Emission standard for commercial environments EN61000-6-3 (Option)

OPTIONS

- Local control panel
- Liquid cooling

FEATURES

- Efficient and reliable
- For 100% unbalanced loads
- Parallel connectable