SMART GRID

MSc off-grid Inverters are the perfect choice for creating 3-phase 380-480V ac microgrid in power range 50kW-500kW. Inverter voltage output is stabilized in all situations and with MSc special output transformers MSc off-grid Inverters are capable to supply even 100% unbalanced loads.

Off-grid Inverters are based on the newest converter technology and they are compact small-sized units which can easily be connected in parallel covering wide power range.

The inverter is equipped with programmable (IEC61131-3) controller platform that can be configured according to the requirements of the application.

OFF-GRID INVERTERS

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	
Operation mode	Off-Grid with output transformer
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, 24Vdc/230Vac, 2A
Digital input	On/Off/Reset
Fieldbus	CAN-bus
General Data	
Dimensions (w x h x d) in mm	285 x 915 x 344
Weight (kg)	58
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 EN6100-6-3

OPTIONS

- Local control panel
- Liquid cooling

FEATURES

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

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