

**TECHNICAL SPECIFICATIONS FOR MEGATECH
PURE SINEWAVE OFF-GRID SOLAR INVERTER**

DC VOLTAGE:	
Inverter Capacity	Nominal DC Voltage
a) 50KVA & above	180V / 192V / 240V / 360
b) 10KVA to 25KVA	120V / 144V / 180V / 192V / 240V
c) 5KVA to 7.5KVA	72V / 96V / 120V / 144V / 180V / 192V
d) 1KVA to 3KVA	24V / 36V / 48V
e) Any DC Voltage option as per customer's requirement	
Max DC voltage	+50% of nominal DC voltage
Min DC voltage	-15% of Nominal DC voltage
INVERTER:	
Technology	IGBT / MOSFET
Output Voltage	a) 230V AC Single Phase b) 400V / 415V AC Three Phase c) Any optional Voltage
Voltage Regulation	± 2% for DC I/p variation & o/p load variation
Frequency	a) 50Hz ± 0.05Hz b) 60Hz ± 0.06 Hz c) Any optional frequency
Waveform	Sine wave
Harmonic Distortion	Less than 3%
Efficiency	> 93% for 360VDC and above > 90% for 180VDC > 85% for 48VDC/72VDC > 80% for 24VDC/36 VDC
Power Factor	Designed for 0.8 lagging to Unity
Overload(normal)	125%for 5 Minutes, 150% for 60 sec
Transient Recovery	Within 60 mSec
Phase Displacement for 3 Ph. output	120° ± 1°
Audible Noise	Less than 55 dB at 1 Meter
METERING:	
Output Voltage & Current	LCD display
Output Frequency	LCD display
DC voltage	LCD display
OPTIONAL	
Charger Types	1.MPPT based solar charge controller 2.Mains charger 3.MPPT and Mains Hybrid charger
Charger Capacity	As per requirement

GENERAL:	
Operating temperature	0°C to 45°C
Humidity	Max 95%, Noncondensing
Degree of Protection	IP 21
PROTECTIONS:	
a) DC Under voltage	Inverter trips
b) DC Over voltage	Inverter trips
c) Output Under voltage	Inverter Trips
d) Output Over voltage	Inverter Trips
e) Output Overload	Inverter Trips
f) Output Short-circuit	Inverter Trips
INDICATIONS & ALARMS	
a) Inverter on	Indication
b) DC Low	Indication & Alarm
c) Output Overload	Indication & Alarm
d) Fault	Indication & Alarm
CHANGE OVER	
a) Electromechanical Switch	Optional
b) Static Changeover Switch (Optional)	Bi-directional optional
c) Manual Changeover Switch	Optional
ISOLATION OF POWER	
Input	MCB Provided for Mains Charger
Battery	HRC Fuse, MCB (Optional)
BATTERY BANK	

*Specifications are subject to change without prior notice due to constant improvement in design & technology.