



COMMITMENT OF UNINTERRUPTED POWER



Leading features :

- ❑ Highly efficient & reliable inverter Concept topology.
- ❑ DC overloading upto 10%.
- ❑ Max. DC input current per String Compatible upto 800WP Solor panel.
- ❑ H- bridge & T- type three-level topology & enhanced SPWM (space pulse width modulation).
- ❑ Wide input Range, low Voltage Start up of 80 V.
- ❑ Compact & light weight design for an easy installation.
- ❑ Low self consumption at night <1W
- ❑ Advance technology for Multiple wide range MPPT Design.
- ❑ Inbuilt Surge protections at both AC & DC side.
- ❑ Fan-less nature cooling models with Thermal protection.
- ❑ RS-485, remote monitoring (WiFi /GPRS).
- ❑ User friendly web & Mobile App Monitoring.
- ❑ Active + passive islanding protection.
- ❑ Zero export enabled model (External CT required)
- ❑ Intelligent string monitoring

**20AMP SINGLE PHASE
INVERTER COMPATIBLE
upto
800WP SOLAR PANEL
of any type**



AatmaNirbhar
Bharat Abhiyan

GRID TIE INVERTER - SINGLE PHASE

1.0KW-6.0KW

CAPACITY (KW)	1	2	3	3.4	3.6	4.0	4.2	4.7	5	5.4	6	
INPUT (DC)												
Max.DC Input power (KW)	1.1	2.2	3.3	3.7	3.9	4.4	4.6	5.1	5.5	5.9	6.6	
Max. DC I/P (Vdc)	550V										600V	
Max. MPPT I/P Current (A)	20A											
MPPT Short Circuit Current (A)	30A											
MPPT Tracking Voltage (Vdc)	70-550V						80-550V			80-600V		
Start-Up Voltage (V)	80V											
Number of MPPT Tracker	1						1/2					
Strings per MPPT Tracker	1											
OUTPUT (AC)												
Rated output power (KW)	1	2	3	3.4	3.6	4.0	4.2	4.7	5	5.4	6	
Rated Grid Voltage (V)	230V											
Voltage Operating Range (V)	140-285V						170 - 285V					
Rated Grid freq. (Hz) / Range	50Hz (± 5%)											
Rated output current AC (A)	4.8	9.6	14.3	16.2	17.2	19	20	22.5	23.5	25.8	28.7	
AC Connection	P+N+PE											
THDI (%)	<3%											
Output Power factor	0.8 leading to 0.8 lagging											
EFFICIENCY												
Max. conversion Efficiency (%)	97.5%											
Max. Euro Efficiency (%)	97.3%											
MPPT Efficiency (%)	>99%											
PROTECTION												
Anti-Islanding Protection	YES											
DC Reverse Polarity Protection	YES											
Insulation Resistance Protection	YES											
Ground Fault Protection	YES											
Output Over Current Protection	YES											
Output Short circuit Protection	YES											
Output Over Voltage Protection	YES											
DC Isolator Switch	NO											
Surge Protection	DC: Type III / AC: Type III											
GENERAL DATA												
Dimensions (W*H*D) mm	280W*272.5H*184D						330W*323H*190D					
Weight (Kg)	4.8						7.5					
Topology	Transformerless											
Noise Emission (dB)	≤25dB											
Display	LED with LCD Display											
Cooling Method	Natural Cooling											
Operating ambient Temperature	(-25°C ~ +65°C)											
Operating Humidity	0% - 100%											
Max. Operating Altitude (m)	2000 (>2000 Derating)m											
Ingress Protection	IP65											
Night Consumption (w)	<1											
Standard Warranty	10 Years											
CONNECTION TYPE												
DC connectors	MC-4											
Ingress AC plug	IP65 rated plug											
Communication Modes	WIFI / GPRS / RS 485											



POWERCRAFT
ELECTRONICS PVT. LTD.

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