

Rated Power [0,8 Power Factor]

Number of Phases	1 - Single	1 - Single	3 - Three
Form Factor	19" Rackmount	Tower	Tower
VA	1-10 kVA	1-200 kVA	3-600 kVA
W	800W-8 kW	800W-160 kW	2.4 kW-480 kW

DC Input (if Needed)

Rated Voltage [DC]	Between 24 - ±384VDC (Depending on Capacity)
Voltage Range [DC]	Adjustable via LCD

General Characteristics

Converter Type & Technology	Proven Legacy Technology with IGBT, DSP Microprocessor Controlled, Scalable
MTBF	> 300 000 hrs (ML-217-F)
Power Factor	0.8 (by Default, 0.9 & 1 Version is Available)
Bypass Voltage Range [AC]	Customized
Standard Protection Features	Reverse Current, Input Power Limiting, Power Module Over Temperature, High Temperature Alert, Smart Short Circuit, Overload, Battery Deep Discharge, Regenerative Loading
Operating Conditions	15~25 °C, < 1000m Above Sea Level, <45% to 55% RH, for Best Performance
Cooling/ Isolation	Forced Air Cooling/ Doubled
Display & Parameters & Audible Alarms	Synoptics LEDs on Front Panel for Alarms, User-friendly LCD, All parameters can be monitored and adjusted.
Maintenance Bypass	Not Available
Material [Casing]/ Colour	RAL7035, RAL7032, Others are optional
Cable Entry	FRONT BOTTOM or TOP(Optional) to System Enclosure

Efficiency

Online Mode	92%	92%	93.5%
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AC Input

Rated Voltage & Range	110VAC, 127VAC, 220VAC, 230VAC, 240VAC P+N	3*220VAC to 3*600VAC, 3P + N + PE
Rated Frequency & Range	50/ 60/ 83/ 1/3/ 400Hz	

Output Characteristics	1-10 kVA	1-200 kVA	3-600 kVA
Rated Voltage & Accuracy	110VAC, 127VAC, 220VAC, 230VAC, 240VAC P+N		3*220VAC to 3*600VAC, 3P + N + PE
Rated Frequency & Accuracy	50/ 60/ 83/ 1/3/ 400Hz		
Output Wave Form	Pure Sinewave		
Voltage Distortion [THDv]	< 3%		
Crest Factor	3:1		
Recovery Period	0.4 ms		
Progressive Start Up	Adjustable, Standard		
Overload Operation	15 secs @ 150% Rated Load, Continuous @ 110% Rated Load within T range.		

Communication & Supervision

Remote Monitoring & Management	Standard: RS232, TSINE User Interface, Optional: MODBUS (RS485), Dry contacts
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Environment

Operating Temperature Range	
Prespecified Operating T.	-10°C - 50°C / 15°C - 25°C / -20°C ~ 70°C
Storage Temperature	
Altitude/ Relative Humidity	< 1000m above sea level/ derating > 1000 m - 1 % per 100 m < 95% (non-condensing)

Certifications

General Requirements of Converters	IEC60146
Safety	EN 62040-1
EMC	EN 62040-2 & EN 60146
Quality Management	ISO 9001, CE

Optional Features & Accessories

Solar MPPT Charge Control	Optional
Custom Electrical Characteristics	Available
IP Classified Enclosure	Available from IP21 ~ IP54, IP54 ~IP64 Ask TSINE

Physical

Dimensions & Weight	See Ratings & Dimensions Chart
Protection Degree	IP20 (Standard)

G.P.E. s.r.l.

General Power Equipment



➤ G.P.E. S.r.l. - Headquarter

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