



# VINCORION



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DEFENSE

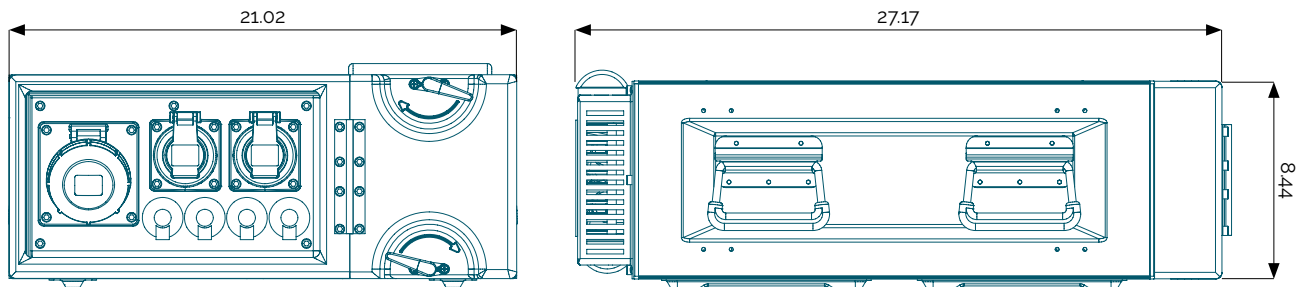
## PPM MODULAR<sup>V</sup> – PORTABLE POWER MANAGEMENT MODULES

**PPM modular<sup>V</sup> combines flexibility and scalability into a 19-inch rack design, built to allow easy integration of electrical generation sources for current and future power needs.**

The plug and play modules showcase smart energy management with an intuitive user interface packaged in a ruggedized case for extreme durability. The unified and cuboid housing in combination with the mechanical locking system allows for a safe and efficient use of space during transport, storage, and operational use. PPM modular<sup>V</sup> enables integration of renewables, gensets, or a commercial grid power to allow

maximum flexibility for a broad range of mission profiles. Li-ion, capacitor, or lead acid energy storage modules expand applications to UPS, peak shaving, and load leveling systems, e.g. for unstable local grids. Energy storage scales easily and can be adapted for changing tactical conditions. Storage modules with super capacitor technology provide peak shaving capability up to 15 kW. Loads up to 8 kW can be supplied permanently. And the transport, setup and operation of the entire system can be done without heavy machinery or technical training.

# TECHNICAL SPECIFICATIONS



All dimensions in inch

## Platform Specifications

### Environmental

Operating temperatures	-25.6 °F to +120.2 °F
Storage temperatures	-50.8 °F to +159.8 °F
Climate zones	A1 to C1
Vibration and shock	According to MIL STD 810 (Road, Rail, Air, Ship transportation)
Protection class	Up to IP65
EMC	According to MIL STD 461

### Interfaces and Controls

Data interfaces	CAN, Ethernet
Internal power link	400 V DC
Controls	Digital display and push buttons
Auxiliary power supplies	2x USB charger 5V / 2A 1x BB2590 socket 10 A 1x cigarette lighter socket 5 A

## Module Specifications

### Power Output Module (1. Generation)

Output power continuous	10 kVA (8 kW)
Output power peak	20 kVA (15 kW for 30 sec)
Output voltage	120 V AC / 240 V AC
Output frequency	60 Hz
Sockets	2x NEMA 5-15 and 1x NEMA 6-50
Total module weight	79 lbs

### Storage Modules

Energy storage types	Lead acid	Super capacitor	Lithium-ion
Energy storage size	900 Wh	50 Wh	1,900 Wh
Continuous discharge power	1,600 W	5,000 W	4,800 W
Minimum full charging cycles	>1,500	>1,000,000	>5,000
Sockets	NATO Start Connector		
Weight storage components	63 lbs	35 lbs	44 lbs
Total module weight	108 lbs	83 lbs	88 lbs

### Grid Input Module

Input voltage range	110-410 V AC (1- or 3-phase)
Input frequency range	45-65 Hz
Input power	100-10,000 W (adjustable to power source)
Input interface	Male inlet NEMA 5-15 and NEMA 6-50
Solar power input	24 V / 1,000 W
Total module weight	92 lbs
Additional features	Power factor correction; galvanic isolation

Other specifications and options are available on request.



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