



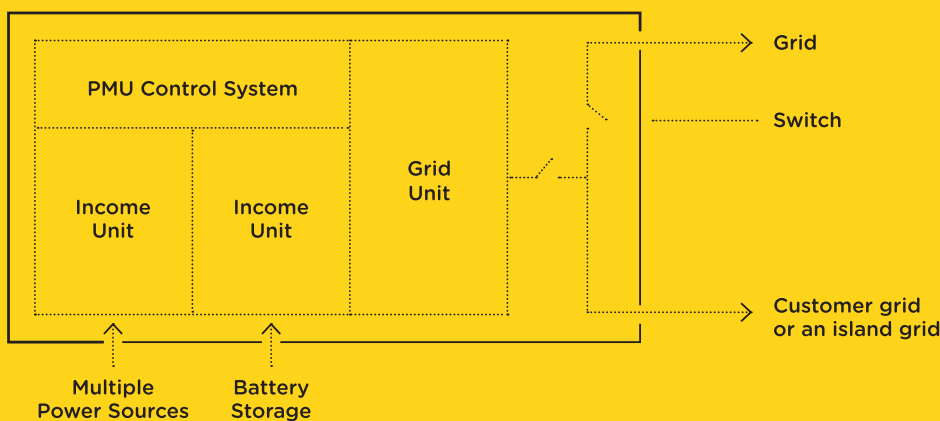
Nocart Power Management Unit (PMU)

Operation

PMU converts any DC or AC source to a high quality electricity complying with the specifications and grid codes of the country. PMU operates in off-grid mode or in parallel with public network. PMU is highly configurable and flexibly adapts to your existing infrastructure and future needs.

Block diagram describes main parts of PMU. Typically the island grid is made with a diesel generator and

the clients want to improve the stability and economics of their network. PMU controls the power flow between various energy sources, like solar panels, battery storage, diesel generator and the grid. PMU combines the UPS battery charger, diesel genset control, reactive power compensation and an active filter.



Technical specifications

Typical application	Solar/diesel generator input with battery storage on-grid and off-grid PMU
Single DC input unit characteristics	Solar: 0–650 VDC, 0–300 A Batteries: 439–650 VDC, 0–300 A
Single AC input unit characteristics	Voltage: 0–690 VAC Frequency: 0–300 Hz Power: 0–1200 kVA
Single output characteristics	400–690 VAC 3-phase, 30–1200 kVA 50/60 Hz
Parallel connection	Higher output and input powers can be achieved with parallel connection of the modules
Control system	Integrated control system for PMU, solar, battery and grid power flow (options available)
Typical weight	approx. 700 kg (60 kVA), 1600 kg (1000 kVA)
Environmental characteristics	Temperature: Transportation –25... +60 °C Storage –25... +55 °C Operation +5... +40 °C (no frost allowed) Cooling: Dry, clean air Maximum operating altitude: 0–1000 m without derating 1000–4000 m with derating Relative humidity: 5–85% without condensation or dripping water Environmental conditions: IEC 60721-3-1, Class 1C2 and Class 1S2 IEC 60721-3-2, Class 2C2 and Class 2S2 IEC 60721-3-3, Class 3C1 and Class 3S2
Remote monitoring	Option
Colour	RAL1023 Traffic Yellow
Protection class	IP 21
Floor carrying capacity	1000 kg / m ²

TYPICAL DIMENSIONS (60 kVA)



TYPICAL DIMENSIONS (1000 kVA)

