

## Redefining Battlefield Power

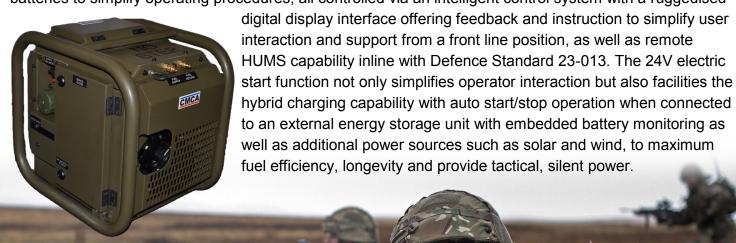
## **Diesel Driven Hybrid Power & Charging Solutions**

CMCA Integrated Systems' 28V DC 2kW Military Packaged Hybrid Generator is an innovative power and charging system which challenges the operational and logistical limitations of traditional diesel generators in the modern battlefield with a single aim;

Save lives by reducing the logistical support required to maintain frontline power and reduce cost by improving overall system efficiency and harnessing potential energy through an intelligent hybrid network to improve front line capability and effectiveness.

Succeeding four previous generations of compact, battle proven power systems from CMCA's power division, the MPHG-002 was designed to a exhausting set of requirements with a compact, vehicle specific space envelope and a broad environmental operating window from –33°C to +63°C. Requiring a low acoustic profile to challenge that of legacy petrol charging systems and stringent EMC attenuation to Defence Standard 59 411 Land Class A, whilst maintaining man portability and not compromising rapid deployment of front line equipment.

Housed within a rugged sound and EMC attenuating enclosure with forced cooling axial fans to maximise airflow to improve efficiency and effectiveness at high ambient, the MPHG-002 provides a low operating signature for tactical deployment. Offering both manual recoil and electric start with integrated 24V starting batteries to simplify operating procedures, all controlled via an intelligent control system with a ruggedised



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MPHG-002 Technical Specification	
Output:	28V DC 70A
Output Protection:	70A manual reset circuit breaker
Power	1 x 28V 2 pole socket
Interface:	1 x 28V 18 pole socket (Trickle charging output)
Fuel:	Diesel (Military Fuels)*
Fuel	External Fuel Source
Capacity:	'Jerry' can interface available.
Engine	Tier V, Single Cylinder, air cooled, auto variable
Specification:	speed, recoil start & electric start
Starting Method:	Manual recoil pull start  Manual electric start with integrated starting batteries  Auto electric start/stop from battery sensing  Auto electric start/stop from external command
EMC:	CE or Def Stan 59 411 Land Class A
Weight:	50kg
Length:	470mm
Width:	370mm
Height:	450mm
HUMS	Remote panel
Interface:	Network link via Ethernet, Modbus TCP, CAN J1939
Operating	-15°C to +63°C
Range:	-33°C to +63°C with arctic pre heat pack

