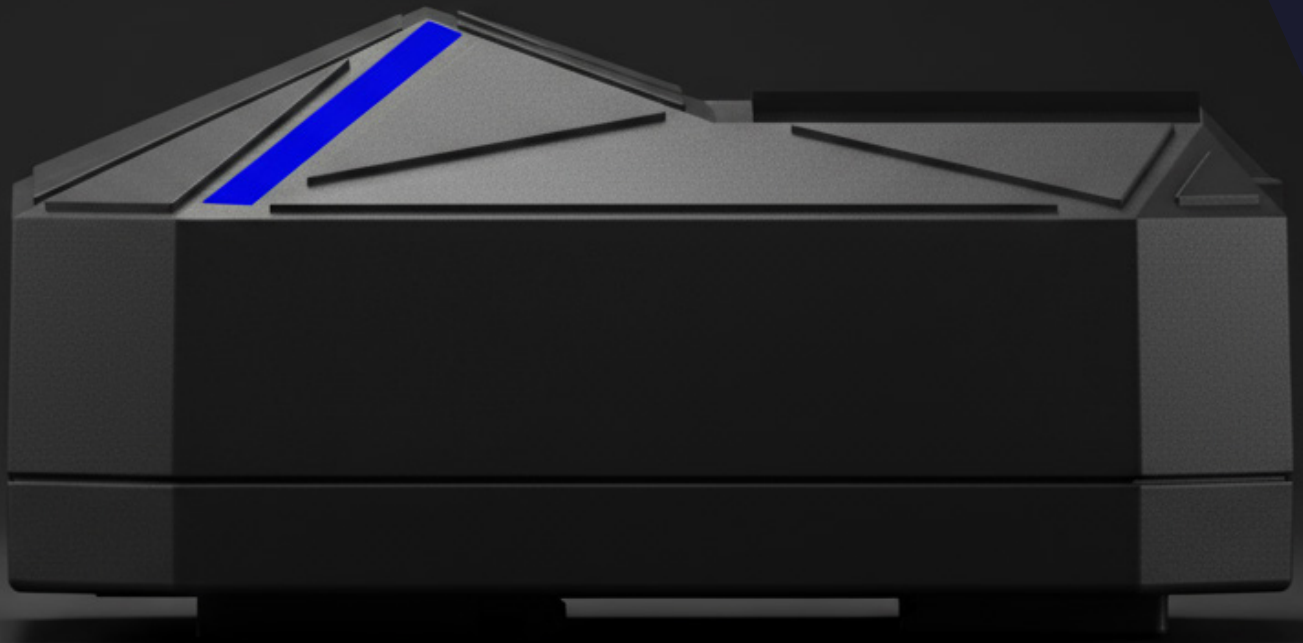


APEX

Full control with **APEX MCS - G2**

The APEX MCS Generation 2 family of microgrid controllers are designed for use in demanding on and off-grid power management applications.

They are designed to manage and control the assets of a microgrid according to the site requirements, grid rules and available power sources. They can move between modes while in operation - optimized for backup today, PV self consumption tomorrow and tariff arbitrage after that.



Microgrid control for medium and large commercial applications.

- Ideal for on or off-grid applications.
- Various models available, according to features and plant size.
- Monitor and control your plant on the local ApexOS web interface or the internet portal on any compatible browser.
- Manage power flow between loads, diesel generators, grid-tied PV inverters, PCSs and batteries and the grid.
- Flexible hardware that can easily be configured to measure and control at any point within the distribution network.
- Flexible third-party device communication over Modbus TCP or Modbus RS485 and CAN via one of our communications extension devices.
- Standard Functions:
 - Diesel genset management and PV integration.
 - Battery management.
 - AC coupled PV integration.
 - Zero power export.
 - Arbitrage including seasonal tariffs.
 - Peak load shaving.
 - Energy reporting.
- Advanced Functions:
 - Weather integration.
 - Power Quality analysis.

SPECIFICATIONS:

Parameter	Value
Dimensions	130 (l) x 155 (w) x 70 (h)
Mounting Method	DIN Mounted
Ingress Protection	IP20
Power Supply	230V AC 50Hz
Signal Inputs	3 x AC voltage measurements (400 V AC Max.) 4 x AC current measurements (5.8A AC Max.)
Digital Inputs	2 Inputs
Digital Outputs	DIN Mounted
Ingress Protection	2 relay inputs: <ul style="list-style-type: none">• Rated switching current: 5A (NO) / 3A (NC)• Rated switching voltage: 250 V AC / 220 Vdc• Max 60W
Comms	TCP/IP over Ethernet / Wifi Modbus over RS485 DNP3 over Ethernet
Local Interface	Local webpage on hotspot
Remote Monitoring And Control	Via APEX Fleet View

MCS - G2 ORDERING INFORMATION:

Part Number	Product	Comment
FG-MG2-AA	MCS Diesel / PV controller – any size	Standard, most popular for PV / Diesel integration
FG-MG2-XX	DNP3 add-on license for MCS-G2	(only for Cape Town)
FG-MG2-AB	Diesel / PV / Battery – up to 250kw AC	PV, Diesel and Batteries
FG-MG2-AE	Diesel / PV / Battery – 251kw AC and up	PV, Diesel and Batteries
FG-MG2-AC	DNP3 controller	(only for Cape Town)
FG-MG2-AF	Diesel / PV controller “LITE” up to 250kw	Low cost option for PV / Diesel integration, no display.

COMPATIBLE BRANDS:

Equipment Types	Compatible Products
Generator Controllers*	Deepsea 8610 ComAp Intelligen
Battery Inverters (PCSs)*	ATESS PCS series ATESS HPS series WECO Hybo series DEYE SUN series Solis S6-EH3P series
PV inverters*	Huawei Goodwe Solis SMA Sungrow Ingeteam Schneider Deye Sunsynk
3rd Party controllers*	Meteocontrol Bluelog Solar-Log
Power meters*	Lovato DMG110 Schneider PM3255 Socomec Diris A10 Janitza UMG104

*Other types on request.