

# PRODUCTS APPLICATIONS

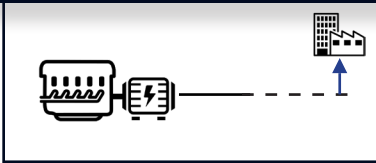
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PRODUCTS APPLICATIONS\_EN\_D2023

# APPLICATIONS

## COMPACT PRODUCTS OVERVIEW

### SINGLE GENSET WITHOUT BREAKER: AUTO START CONTROLLER



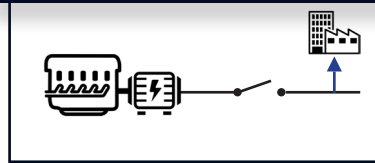
#### REQUIREMENTS

- Start/Stop control
- Genset mechanical & electrical protections
- No breaker control
- No voltage control
- No speed control

#### PRODUCTS REQUIRED

- **AMF COMPACT** (In Auto Start Module configuration)

### SINGLE GENSET WITH 1 GENERATOR BREAKER: AUTO START CONTROLLER



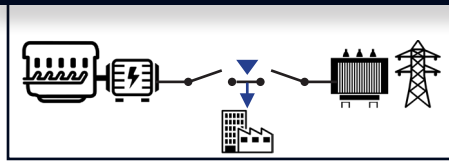
#### REQUIREMENTS

- Start/Stop control
- Genset mechanical & electrical protections
- Breaker control
- No voltage control
- No speed control

#### PRODUCTS REQUIRED

- **AMF COMPACT**  
(In Auto Start Module configuration)

### SINGLE STANDBY GENSET WITH CHANGE OVER MODE (AUTO MAINS FAILURE)



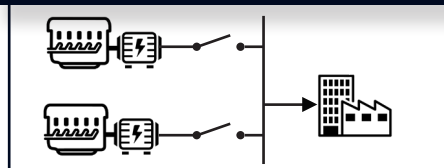
#### REQUIREMENTS

- Start/Stop control
- Genset mechanical & electrical protections
- Auto transfer switch
- Breakers control
- No voltage control
- No speed control

#### PRODUCTS REQUIRED

- **AMF COMPACT**

### STANDBY GENERATORS WITH PARALLELING MODE (PRODUCTION OR EMERGENCY)



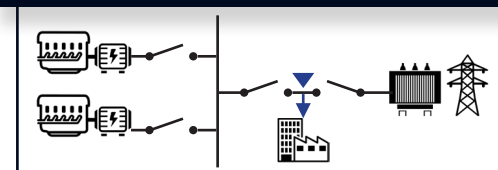
#### REQUIREMENTS

- Start/Stop control
- Genset mechanical & electrical protections
- Breakers management
- Synchronization
- Load sharing

#### PRODUCTS REQUIRED

- **2 GENSYS COMPACT PRIME**

### STANDBY GENERATORS WITH PARALLELING MODE WITH CHANGE OVER MODE



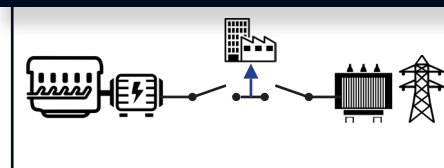
#### REQUIREMENTS

- ATS with Mains
- Start/Stop control
- Genset mechanical & electrical protections
- Breakers management
- Synchronization
- Load sharing

#### PRODUCTS REQUIRED

- **2 GENSYS COMPACT PRIME + MASTER COMPACT**

### SINGLE STANDBY GENSET WITH MAINS PARALLELING MODE



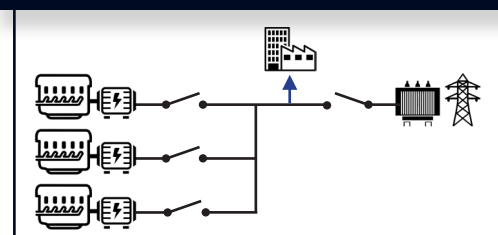
#### REQUIREMENTS

- Start/Stop control
- Genset mechanical & electrical protections
- Breakers management
- Synchronization
- Power management

#### PRODUCTS REQUIRED

- **GENSYS COMPACT MAINS**

### MULTIPLE GENSETS PARALLELED WITH 1 MAINS/1 BREAKER



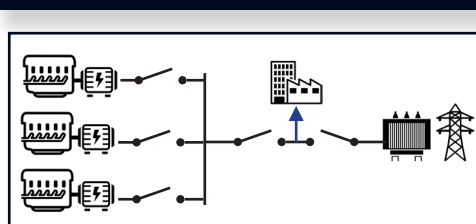
#### REQUIREMENTS

- Start/Stop control
- Genset mechanical & electrical protections
- Breakers management
- Synchronization
- Generator load sharing
- Mains paralleling and power management
- Load shedding

#### PRODUCTS REQUIRED

- **3 GENSYS COMPACT PRIME + 1 MASTER COMPACT 1B**

### MULTIPLE GENSETS PARALLELED WITH 1 MAINS / 2 BREAKERS



#### REQUIREMENTS

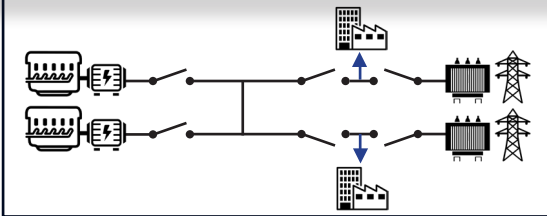
- Start/Stop control
- Genset mechanical & electrical protections
- Breakers management
- Synchronization
- Generator load sharing
- Mains paralleling and power management
- Load shedding

#### PRODUCTS REQUIRED

- **3 GENSYS COMPACT PRIME + MASTER COMPACT**

For direct connection with multiple mains application, it is mandatory to use 2 breakers and MASTER COMPACT controller. One breaker and MASTER COMPACT 1B controller will not allow to manage all sequences.

### MULTIPLE GENSETS PARALLELED WITH MULTIPLE MAINS



#### REQUIREMENTS

- Start/Stop control
- Genset mechanical & electrical protections
- Breakers management
- Synchronization
- Generator load sharing
- Mains power management
- Load shedding
- Mains paralleling

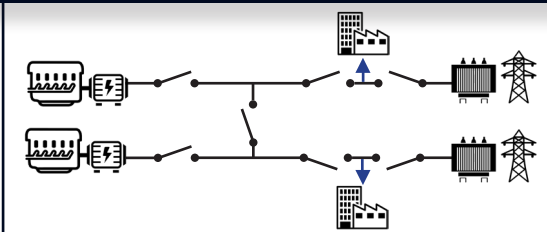
#### PRODUCTS REQUIRED

- 2 GENSYS COMPACT PRIME + 2 MASTER COMPACT



AMF COMPACT  
HMI & CORE VERSION

### H CONFIGURATION WITH BUS TIE BREAKER AND MAINS 2 BREAKERS



#### REQUIREMENTS

- Start/Stop control
- Genset mechanical & electrical protections
- Breakers management
- Synchronization
- Generator load sharing
- Mains power management
- Load shedding
- Mains paralleling
- Bus & Tie breaker management

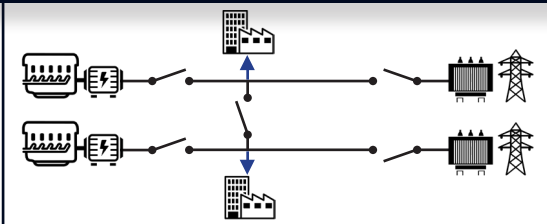
#### PRODUCTS REQUIRED

- 2 GENSYS COMPACT PRIME
- 2 MASTER COMPACT + 1 BTB COMPACT



GENSYS COMPACT PRIME  
HMI & CORE VERSION

### H CONFIGURATION WITH BUS TIE BREAKER AND MAINS 1 BREAKER



#### REQUIREMENTS

- Start/Stop control
- Genset mechanical & electrical protections
- Breakers management
- Synchronization
- Generator load sharing
- Mains power management
- Load shedding
- Mains paralleling
- Bus & Tie breaker management

#### PRODUCTS REQUIRED

- 2 GENSYS COMPACT PRIME
- 2 MASTER COMPACT 1B + 1 BTB COMPACT

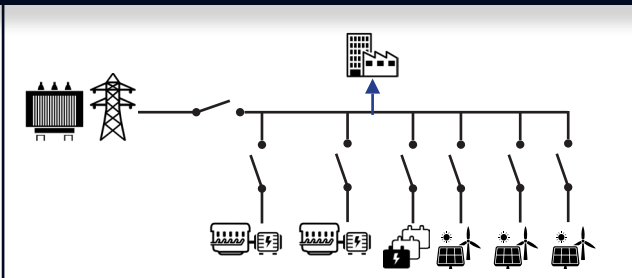


GENSYS COMPACT MAINS  
HMI & CORE VERSION



MASTER COMPACT  
HMI & CORE VERSION

### HYBRID APPLICATION WITH PHOTOVOLTAIC SYSTEMS AND STORAGE BATTERIES



#### REQUIREMENTS

- Start/Stop control
- Genset mechanical & electrical protections
- Breakers management
- Synchronization
- Generator load sharing
- Mains power management
- Load shedding
- Mains paralleling
- Communication ModBus & Spec
- Control PV & battery inverter
- Control of the reactive power kVAR batteries & PV

#### PRODUCTS REQUIRED

- 2 GENSYS COMPACT PRIME + 1 MASTER COMPACT 1B
- 3 HYBRID COMPACT + 1 BAT COMPACT

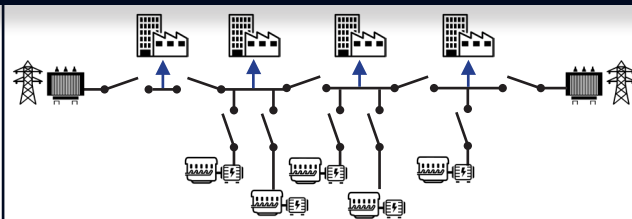


BTB COMPACT  
HMI & CORE VERSION



HYBRID COMPACT  
HMI & CORE VERSION

### COMPLEX APPLICATION WITH MULTIPLE GENSETS, MULTIPLE MAINS AND MULTIPLE BUS TIE BREAKER



#### REQUIREMENTS

- Start/Stop control
- Genset mechanical & electrical protections
- Breakers management
- Synchronization
- Generator load sharing
- Mains power management
- Load shedding
- Mains paralleling
- Bus & Tie breaker management

#### PRODUCTS REQUIRED

- 5 GENSYS COMPACT PRIME
- 1 MASTER COMPACT + 1 MASTER COMPACT 1B + 1 BTB COMPACT



BAT COMPACT  
HMI & CORE VERSION

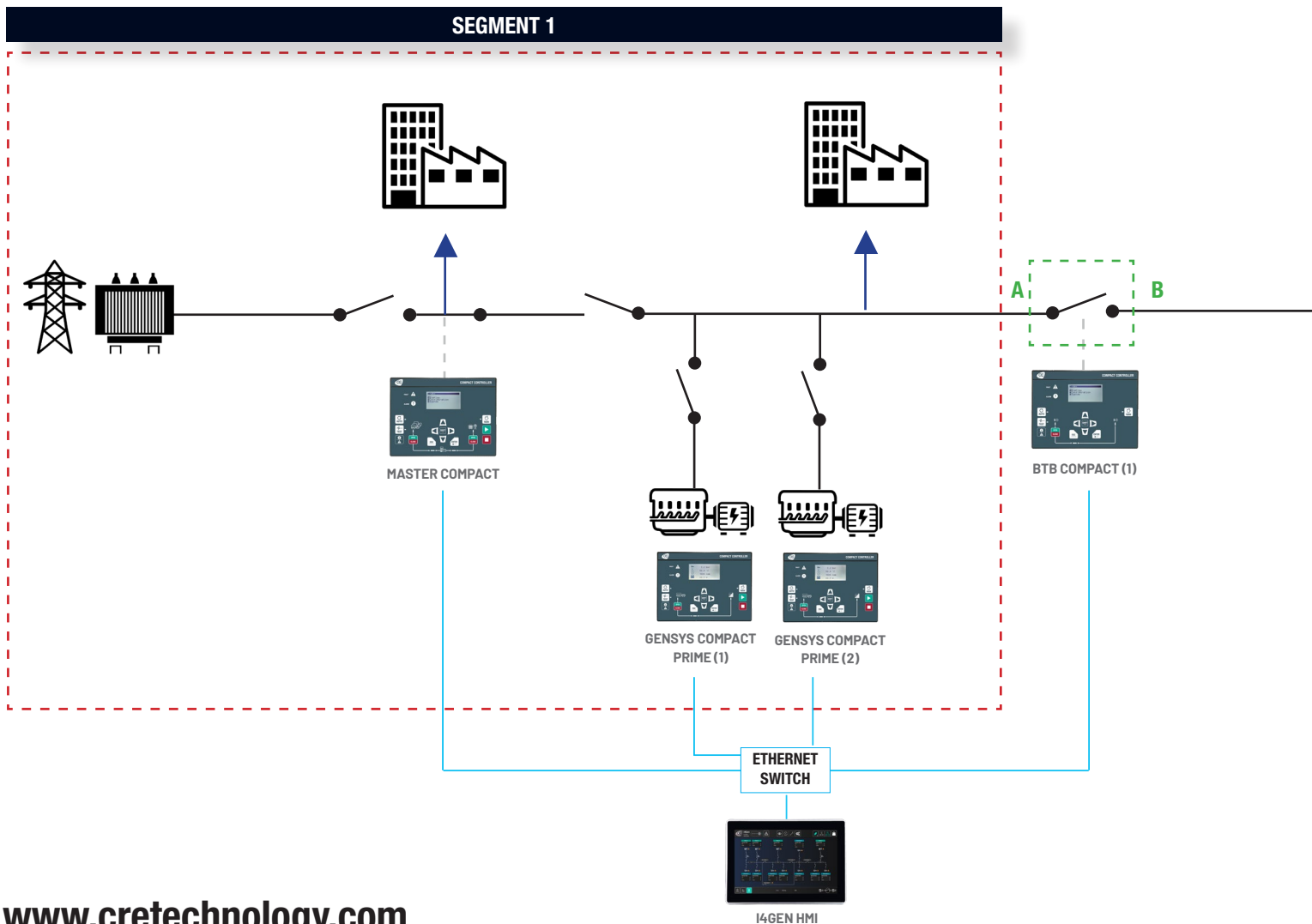


I4GEN  
7'' - 10'' - 15''



# APPLICATION EXAMPLE + COMPLEXE APPLICATION:

## MULTIPLE GENSETS, MULTIPLE MAINS AND MULTIPLE BUS TIE BREAKER



## CONFIGURE YOUR COMPLEX APPLICATION WITH ONLY SIX PARAMETERS

MODULE	PRODUCT NUMBER	QUANTITY OF GENSYS COMPACT PRIME	QUANTITY OF MASTER COMPACT/ BTB COMPACT	SEGMENT	SEGMENT A	SEGMENT B
MASTER COMPACT	1	5	4	1	NOT AVAILABLE	NOT AVAILABLE
MASTER COMPACT 1B	2	5	4	3	NOT AVAILABLE	NOT AVAILABLE
BTB COMPACT 1	3	5	4	NOT AVAILABLE	1	2
BTB COMPACT 2	4	5	4	NOT AVAILABLE	2	3
GENSYS COMPACT PRIME 1	1	5	4	1	NOT AVAILABLE	NOT AVAILABLE
GENSYS COMPACT PRIME 2	2	5	4	1	NOT AVAILABLE	NOT AVAILABLE
GENSYS COMPACT PRIME 3	3	5	4	2	NOT AVAILABLE	NOT AVAILABLE
GENSYS COMPACT PRIME 4	4	5	4	2	NOT AVAILABLE	NOT AVAILABLE
GENSYS COMPACT PRIME 5	5	5	4	3	NOT AVAILABLE	NOT AVAILABLE

For direct connection with multiple mains application, it is mandatory to use 2 breakers and MASTER COMPACT controller. One breaker and MASTER COMPACT 1B controller will not allow to manage all sequences.

