

Preventive Maintenance / Regular Preventive Maintenance Report

12/03/2025

AERONAUTICA CIVIL BOGOTA
AERONAUTICA CIVIL BOGOTA - SITE

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Legend	
Conforms	The equipment conforms
Conforms with reservations	CAUTION: action required per our recommendations (failure to follow these instructions can result in injury, equipment damage or loss of service continuity).
Does not conform	DANGER: action required immediately per our recommendations (failure to follow these instructions will result in death, serious injury, property damage or loss of service continuity).

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Executive summary

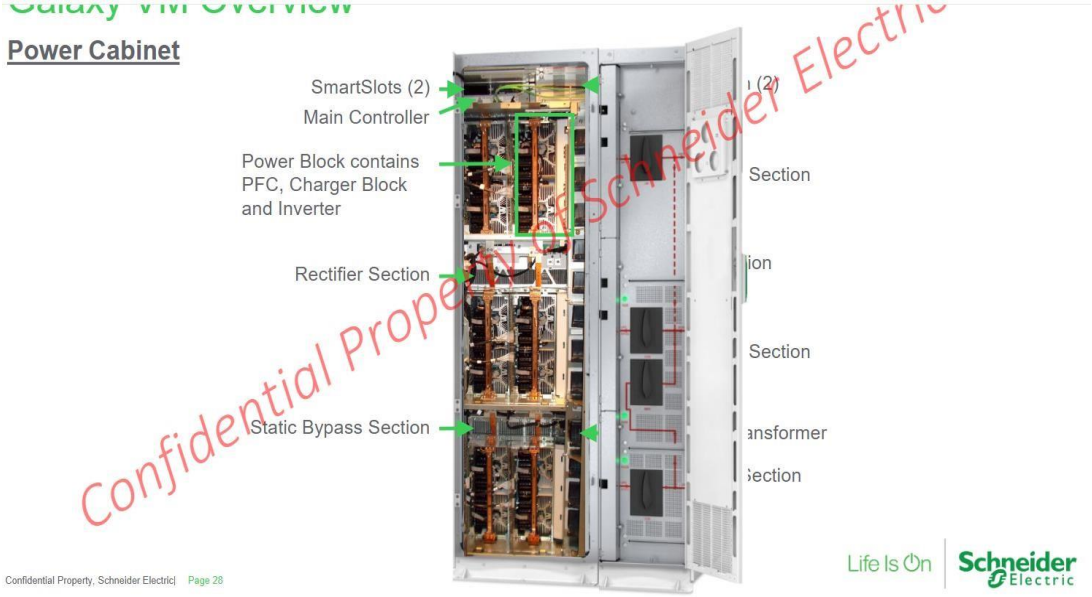
Final considerations

FUNCIONAMIENTO OPERATIVO GALAXY VM





La UPS GALAXY VM es modular en potencia mas no en funcionamiento, usa un gabinete de potencia (Power cabinet-PC) con capacidad de 160kVA a 225kVA.



Galaxy VM Overview

Power Block:

- PC is divided into two sections: A (left) B (right)
  - All Power Blocks in a section must be the same kVA size
  - Section A must have Power Blocks of the largest kVA size

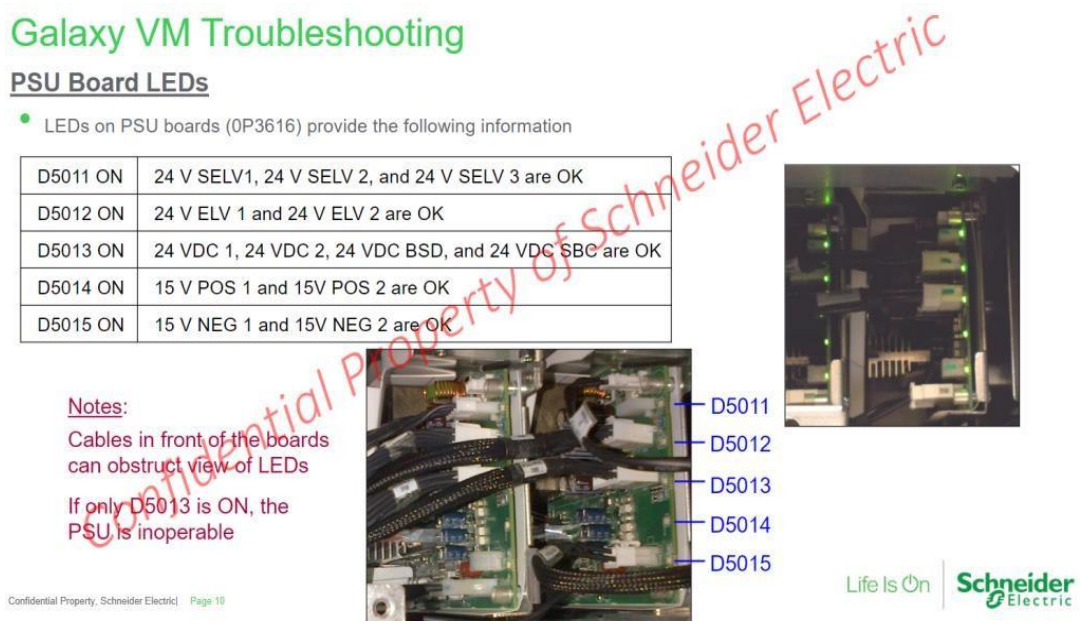
UPS Size	Section A	Section B
160kVA	27kVA 27kVA 27kVA	27kVA 27kVA 27kVA
200kVA	40kVA 40kVA 40kVA	27kVA 27kVA 27kVA

If Power Blocks are installed incorrectly, UPS will indicate this during start-up self-test

- No Power Block redundancy; UPS goes into Bypass if one fails

Confidential Property of Schneide

Los módulos de potencia no son redundantes, si se presenta falla en uno de los módulos de potencia la UPS transfiere la carga a bypass estático.



Las fuentes de poder (PSU) alimentan con tensión DC varios sistemas críticos de la UPS y no son redundantes.

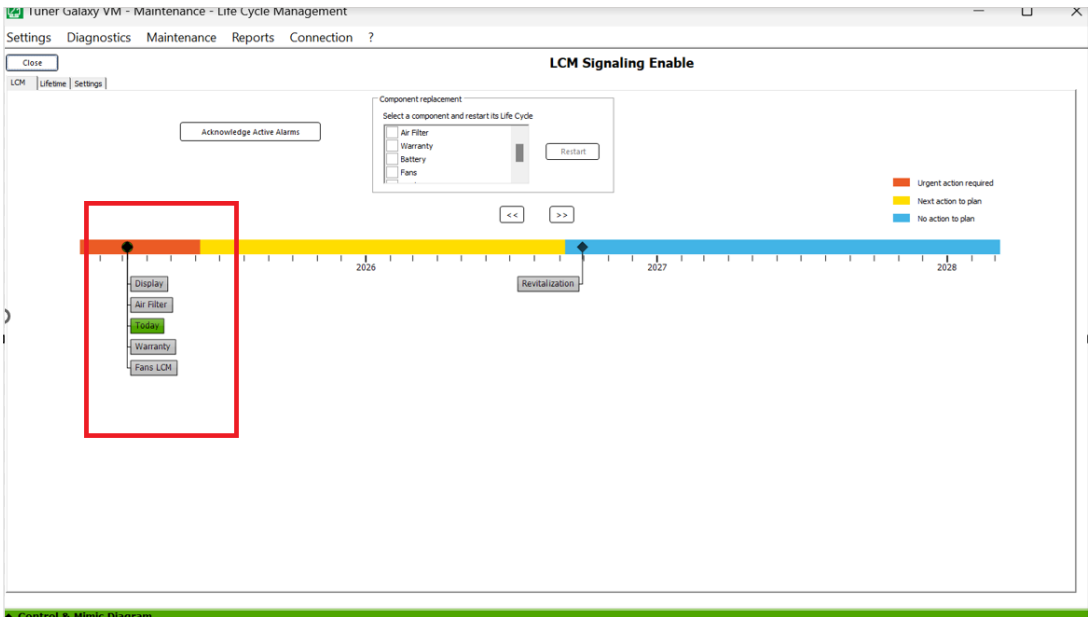
La UPS está conformada por una unidad de control, bypass estático, rectificador, filtros de entrada-salida, contactores de entrada-salida, tarjetas de distribución y display.

Para un mantenimiento correctivo en alguna parte del PC, es necesario el apagado completo de la UPS o un paso a bypass mecánico externo para realizar el correctivo pertinente.

Para rutinas de mantenimiento periódica es necesario el apagado de la UPS o paso de la carga a bypass mecánico externo.

CONCLUSIONES I/O ACCIONES DE MEJORA

- SE RECOMIENDA REMPLAZAR LOS COMPONENTES CON TIEMPO DE VIDA UTIL CULMINADO.

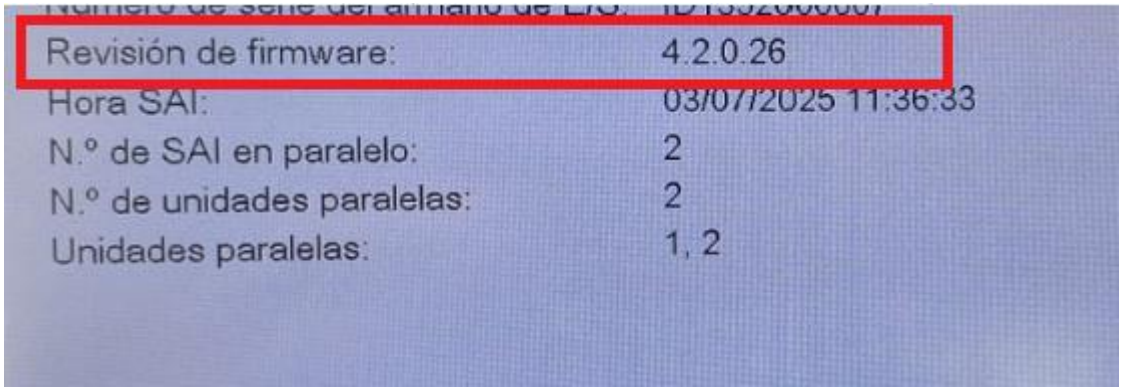


1 DISPLAY.

KIT FILTROS DE POLVO.

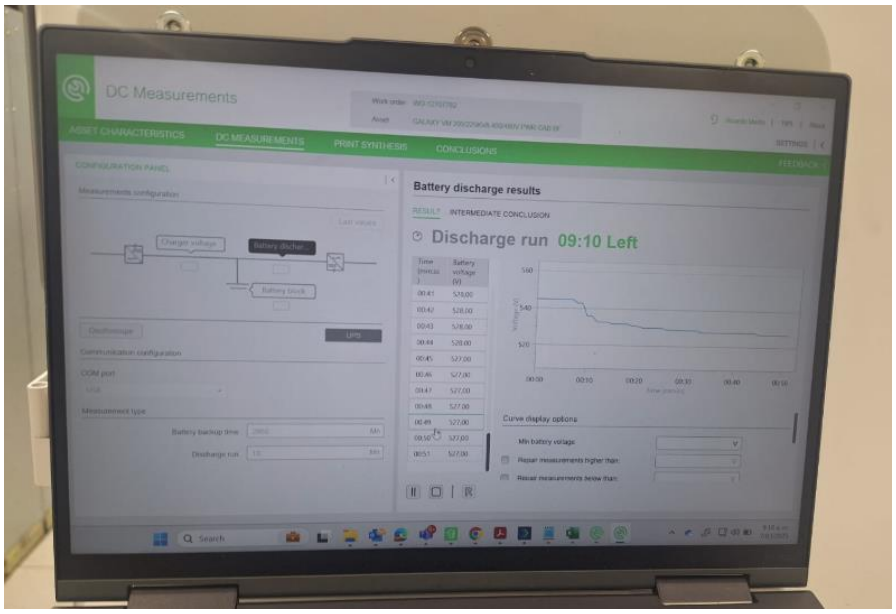
16 VENTILADORES.

- SE REALIZA UNA EXPLICACION AL CLIENTE DE LOS RIESGOS ASOCIADOS EN LA ACTUALIZACION DE FIRMWARE DEBIDO A VARIAS VERSIONES QUE ESTAN DISPONIBLES, LO QUE PUEDE LLEGAR EN UN PEQUEÑO PORCENTAJE A GENERAR FALLAS EN MODULOS DE POTENCIA, CONTROLADOR Y CONTROLES GENERALES, POR LO ANTERIOR EL CLIENTE DECIDE NO REALIZAR LA ACTUALIZACION Y REVISAR UN STOCK DE PARTES PARA MITIGAR LOS RIESGOS.



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- SE REALIZA TEST DE BATERIAS CON RESULTADO SATISFACTORIO.



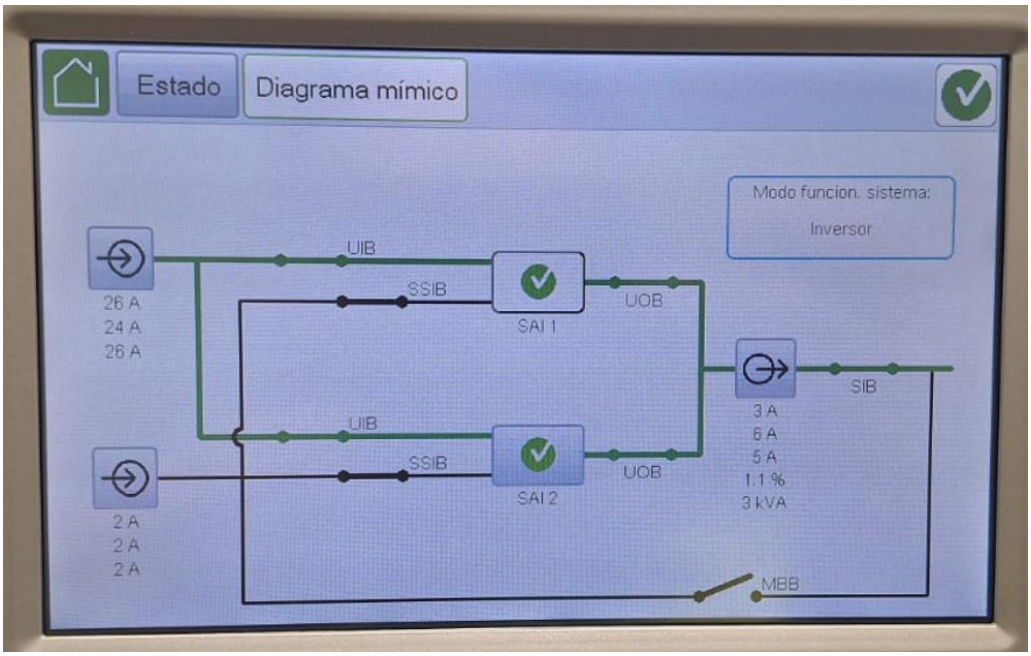
- SE RECOMIENDA UN STOCK DE PARTES PARA MITIGAR TIEMPOS EN MANTENIMIENTOS CORRECTIVOS Y CORREGIR FALLAS EN CASO DE PRESENTARSE.
- LA UPS YA CULMINO SU CICLO DE VIDA UTIL Y SE RECOMIENDA EL REMPLAZO DE PARTES CRITICAS O MODERNIZACION DE EQUIPOS.

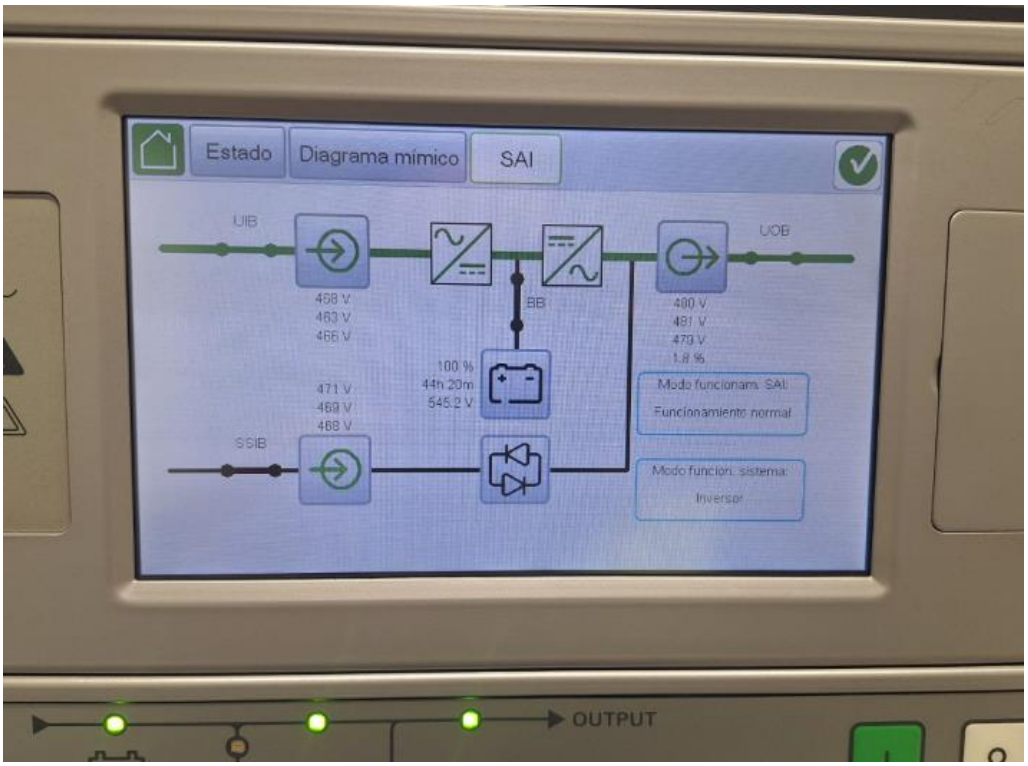
Component	Lifecycle (years)
Air Filter	1
Battery (VRLA)	4
Breaker Coil*	5
Fans	5
Display	6
Battery (Li-Ion)	10**
Battery Monitor Board	10
External Switchgear Board	10
Intelligence Modules	10
NMC	10
Power Block	10
Static Switch Module	10
System PSU	10

*If installed.

**Or under 80%SOH (normal use case in 24 cycles/year and 2 full discharges/year).

- LA UPS QUEDA OPERATIVA FUNCIONANDO EN LINEA E INVERSOR CON CARGA Y EN MODO PARALELO.





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Test equipment and software used

Software used

Following software has been used during the intervention:

Software	Version	Expertise
OnSite Connect	6.27.1.1	6.27.1.1
OnSite - IT	6.27.3.1	6.27.0
OnSite - Maintenance	6.27.1.1	6.27.2.1

Security principles for greater Trust

At Schneider Electric, our commitment to Life is On begins with our dedication to building and nurturing Trust with our customers. Incorporating security into every facet of our operations - from design to maintenance - we require all of our Service Representatives operating in customer Digital and Operational environments to be Schneider Electric certified.

The Cyber Badge certification means that Service Representatives have undergone training on secure operation principles consistent with cybersecurity industry-leading standards such as IEC 62443-2-4 and ISO 27001, and possess up-to-date IT equipment and software to carry out their work on a customer site. The goals of the Cyber Badge program are to prevent Service Representatives from becoming threat vectors, ensure they operate in a manner consistent with cybersecurity standards, and provide them with training to help detect and report cybersecurity incidents.

Details of intervention for each asset

UPS N1 A / GALAXY VM 200/225KVA 400/480V PWR CAB BF

Location: **AERONAUTICA CIVIL BOGOTA - SITE**

Main characteristics	**Connectivity**
Brand: Schneider Electric	Connectable: READY
Range: Galaxy VM	Connected: Cloud
SKU (Reference): 0G-GVMPB200K225D	Remote system: EcoStruxure IT APP
Product description: GALAXY VM 200/225KVA 400/480V PWR CAB BF	
Complementary identification: -	
Serial number: ID1423000358	
Power rating: 225 kVA	
Phase type: 3:3	
Rated frequency: 60 Hz	
Nominal output voltage: 480 V	
Installed product lifecycle	**Battery characteristics - Basics**
Manufacturing date: 04/06/2014	Battery solution: Modular
Warranty end date: 03/12/2015	Battery monitoring system: None
End of commercialization date: Not defined	Battery location: Same as equipment room
Obsolescence date: Not defined	Battery type: Sealed acid
Withdrawal date: Not defined	Installation battery type: Cubicle
	Battery manufacturer: CSB
	Model: 12V9A
	Battery capacity: 9 Ah
Battery characteristics - Advanced	
Quantity of battery strings: 26	
Type of battery block: 12.0 V	
Number of battery cell per block: 60	
Number of battery blocks per string: 40	

Personalization

Health Status: Conforms

Comment:

- ok

Configuration data

UPS Settings
Output

AC Wiring configuration (*)	No neutral wired	Output Frequency & Output Frequency Tolerance (*)	60 Hz +/-10.0 Hz Hz
Output Synchronization Speed / Slew rate	1 Hz/s	Output Voltage Compensation	0 %
Output Voltage Compensation With Loaded Transformer	0 %		
Genset			
Transfer from Battery to Normal Operation delay	0 s	Input Ramp-in Time	10 s
Parallel System			
Advanced Battery Operation/Enable	Yes	Minimum Number of UPS Required to Supply Load	1
Parallel UPS Unique Number (*)	UPS 1	Parallel Redundancy	N + 0
UPS Units Presence/UPS 1	Present	UPS Units Presence/UPS 2	Present
UPS Units Presence/UPS 3	Not Present	UPS Units Presence/UPS 4	Not Present
UPS Units Presence/UPS 5	Not Present		
Bypass			
Transfer to Static Bypass (*)	With Bypass Out of Tolerance	Bypass Open Transition Time	10 ms
Transfer to Bypass on EPO	Not Allowed	Bypass & Output RMS Voltage Tolerance	10.0 %
UPS System			
Neutral Bonding	Not present	Neutral Bonding Always Activated	No
Neutral Bonding Activated in Battery Op.	Yes	External Sync Mode	Disable
Force Sync to External Source	Disable	UPS is Preferred Sync Source	No
Static Bypass Standby	Disable	Fixed Sync Master	Disable
Frequency Converter Mode	Disable	Transformer on input present/Transformer	Not present
Mains configuration	Dual Mains	UPS Power Rating (*)	200/225kVA (400V/480V) kVA
Autostart Mode on Inverter	Disabled	Transformer on output present/Transformer	Not present
SBP Breaker presence/SIB	Present	Nominal Output Voltage (*)	480 V
Energy Storage			
Energy Storage Type	Battery Storage	Flywheel/Flywheel present	No

Battery Setting			
Modular Battery			
Number of ModBC/ModBC 1	Present	Number of ModBC/ModBC 2	Present
Number of ModBC/ModBC 3	Present	Number of ModBC/ModBC 4	Not Present
Number of ModBC/ModBC 5	Not Present	Number of ModBC/ModBC 6	Not Present
Number of ModBC/ModBC 7	Not Present	Number of ModBC/ModBC 8	Not Present
Number of Strings in ModBC 1	11	Number of Strings in ModBC 2	12
Number of Strings in ModBC 3	2	Number of Strings in ModBC 4	0
Number of Strings in ModBC 5	0	Number of Strings in ModBC 6	0
Number of Strings in ModBC 7	0	Number of Strings in ModBC 8	0
Battery Setting			
Battery solution/Classic Battery Solution	No Classic	Battery solution/Modular Battery Solution	Present

	Batteries		
Charger			
Battery Charge level when Powered by Generator	100 %	Charge Time - Boost	08:00 (h:mm)
Charger Mode/Auto Boost Charge Mode	Enable	Charger Mode/Auto Cyclic Charge Mode	Disable
Charger Mode/Boost Charge Mode	Allowed	Battery Charge Level	20 %
Charge Time - Equalization	08:00 (h:mm)	Charge Voltage - Equalization	2.45 V
Battery Temperature Reference	298.15 K		
Discharge			
Automatic Battery Disconnect/Automatic Battery Disconnect	Yes	Battery Runtime Low Warning Threshold	4 min
Deep discharge Monitoring/Deep Discharge	Not Allowed	Low Battery Shutdown Level	1.59 V
Calculation			
Battery Runtime Calculation Scale	64810.00000	Battery Runtime Calculation Expo	116670.00000
Battery Runtime Calculation Rslope	6097.00000	Battery Runtime Calculation Energy	0.00000
Battery Runtime Calculation Method	CA		
Surveillance			
Low Battery Temperature Level	289.15 K	High Battery Temperature Level	303.15 K
Battery Temperature Monitoring/Battery Temperature Sensor	Present	Battery Temperature Monitoring/Energy storage internal surveillance	Disable
SelfTest			
Automatic Battery Self Test Day of Week	Tuesday	Automatic Battery Self Test Interval	Every 8 weeks
Automatic Battery Self Test Time	00:00 (h:mm)		
General Battery			
BB presence/BB1	Not Present	BB presence/BB2	Not Present
Energy Storage	Individual		

Contacts & Relays Settings			
Input Contacts			
Contact 1	<NULL>	Contact 2	<NULL>
Contact 3	<NULL>	Contact 4	<NULL>
Contact 5	<NULL>	Contact 6	<NULL>
Output Relays			
Relay 1 - Delay before activation	0 s	Relay 1/Common Alarm	Not used
Relay 1/Normal Operation	Not used	Relay 1/Battery Operation	Not used
Relay 1/Maintenance Bypass	Not used	Relay 1/Static Bypass	Not used
Relay 1/UPS setup to use High Efficiency Mode	Not used	Relay 1/Output Overloaded	Not used
Relay 1/Fan Inoperable	Not used	Relay 1/Battery is not working correctly	Not used
Relay 1/Battery Disconnected	Not used	Relay 1/Battery Voltage Low	Not used
Relay 1/Input Out Of Tolerance	Not used	Relay 1/Bypass Out Of Tolerance	Not used
Relay 1/UPS Warning	Not used	Relay 1/UPS Critical	Not used
Relay 1/Parallel Redundancy Lost	Not used	Relay 1/External Fault	Not used
Relay 1/UPS Maintenance Mode	Not used	Relay 1/System Critical	Not used
Relay 1/System Warning	Not used	Relay 1/System Common Alarm	Not used

Relay 2 - Delay before activation	0 s	Relay 2/Common Alarm	Not used
Relay 2/Normal Operation	Not used	Relay 2/Battery Operation	Not used
Relay 2/Maintenance Bypass	Not used	Relay 2/Static Bypass	Not used
Relay 2/UPS setup to use High Efficiency Mode	Not used	Relay 2/Output Overloaded	Not used
Relay 2/Fan Inoperable	Not used	Relay 2/Battery is not working correctly	Not used
Relay 2/Battery Disconnected	Not used	Relay 2/Battery Voltage Low	Not used
Relay 2/Input Out Of Tolerance	Not used	Relay 2/Bypass Out Of Tolerance	Not used
Relay 2/UPS Warning	Not used	Relay 2/UPS Critical	Not used
Relay 2/Parallel Redundancy Lost	Not used	Relay 2/External Fault	Not used
Relay 2/UPS Maintenance Mode	Not used	Relay 2/System Critical	Not used
Relay 2/System Warning	Not used	Relay 2/System Common Alarm	Not used
Relay 3 - Delay before activation	0 s	Relay 3/Common Alarm	Not used
Relay 3/Normal Operation	Not used	Relay 3/Battery Operation	Not used
Relay 3/Maintenance Bypass	Not used	Relay 3/Static Bypass	Not used
Relay 3/UPS setup to use High Efficiency Mode	Not used	Relay 3/Output Overloaded	Not used
Relay 3/Fan Inoperable	Not used	Relay 3/Battery is not working correctly	Not used
Relay 3/Battery Disconnected	Not used	Relay 3/Battery Voltage Low	Not used
Relay 3/Input Out Of Tolerance	Not used	Relay 3/Bypass Out Of Tolerance	Not used
Relay 3/UPS Warning	Not used	Relay 3/UPS Critical	Not used
Relay 3/Parallel Redundancy Lost	Not used	Relay 3/External Fault	Not used
Relay 3/UPS Maintenance Mode	Not used	Relay 3/System Critical	Not used
Relay 3/System Warning	Not used	Relay 3/System Common Alarm	Not used
Relay 4 - Delay before activation	0 s	Relay 4/Common Alarm	Not used
Relay 4/Normal Operation	Not used	Relay 4/Battery Operation	Not used
Relay 4/Maintenance Bypass	Not used	Relay 4/Static Bypass	Not used
Relay 4/UPS setup to use High Efficiency Mode	Not used	Relay 4/Output Overloaded	Not used
Relay 4/Fan Inoperable	Not used	Relay 4/Battery is not working correctly	Not used
Relay 4/Battery Disconnected	Not used	Relay 4/Battery Voltage Low	Not used
Relay 4/Input Out Of Tolerance	Not used	Relay 4/Bypass Out Of Tolerance	Not used
Relay 4/UPS Warning	Not used	Relay 4/UPS Critical	Not used
Relay 4/Parallel Redundancy Lost	Not used	Relay 4/External Fault	Not used
Relay 4/UPS Maintenance Mode	Not used	Relay 4/System Critical	Not used
Relay 4/System Warning	Not used	Relay 4/System Common Alarm	Not used
Relay 5 - Delay before activation	0 s	Relay 5/Common Alarm	Not used
Relay 5/Normal Operation	Not used	Relay 5/Battery Operation	Not used
Relay 5/Maintenance Bypass	Not used	Relay 5/Static Bypass	Not used
Relay 5/UPS setup to use High Efficiency Mode	Not used	Relay 5/Output Overloaded	Not used
Relay 5/Fan Inoperable	Not used	Relay 5/Battery is not working correctly	Not used
Relay 5/Battery Disconnected	Not used	Relay 5/Battery Voltage Low	Not used
Relay 5/Input Out Of Tolerance	Not used	Relay 5/Bypass Out Of Tolerance	Not used
Relay 5/UPS Warning	Not used	Relay 5/UPS Critical	Not used
Relay 5/Parallel Redundancy Lost	Not used	Relay 5/External Fault	Not used
Relay 5/UPS Maintenance Mode	Not used	Relay 5/System Critical	Not used
Relay 5/System Warning	Not used	Relay 5/System Common Alarm	Not used

Relay 6 - Delay before activation	0 s	Relay 6/Common Alarm	Not used
Relay 6/Normal Operation	Not used	Relay 6/Battery Operation	Not used
Relay 6/Maintenance Bypass	Not used	Relay 6/Static Bypass	Not used
Relay 6/UPS setup to use High Efficiency Mode	Not used	Relay 6/Output Overloaded	Not used
Relay 6/Fan Inoperable	Not used	Relay 6/Battery is not working correctly	Not used
Relay 6/Battery Disconnected	Not used	Relay 6/Battery Voltage Low	Not used
Relay 6/Input Out Of Tolerance	Not used	Relay 6/Bypass Out Of Tolerance	Not used
Relay 6/UPS Warning	Not used	Relay 6/UPS Critical	Not used
Relay 6/Parallel Redundancy Lost	Not used	Relay 6/External Fault	Not used
Relay 6/UPS Maintenance Mode	Not used	Relay 6/System Critical	Not used
Relay 6/System Warning	Not used	Relay 6/System Common Alarm	Not used

Communication Settings			
UPS Display			
Display - TCP/IPv4 System IP	172.17.3.130	Display - TCP/IPv4 Subnet Mask	255.255.255.0
Display - TCP/IPv4 Default Gateway	172.17.3.254	Display - TCP/IPv6 System IP	0000:0000:0000:0000:0000:0000:0000:0000
Display - TCP/IPv6 Gateway	0000:0000:0000:0000:0000:0000:0000:0000	Display - TCP/IPv6 Prefix	64
Display - Modbus address	1	Display - ModBus Baud Rate	9600 Bits/s
Display - Modbus Enable/Modbus RTU	Enable	Display - Modbus Enable/Modbus TCP	Disable
Display - Modbus TCP Port	502	Display - Modbus Format	Parity Even
Display - TCP/IPv6 Mode/IPv6 Disabled	No	Display - TCP/IPv6 Mode/IPv6 Enabled	Yes
Display - TCP/IPv6 Mode/IPv6 AutoConf Disabled	No	Display - TCP/IPv6 Mode/IPv6 AutoConf Enabled	Yes
Display - TCP/IPv6 Mode/DHCPv6 Disabled	No	Display - TCP/IPv6 Mode/DHCPv6 Router Controlled	Yes
Display - TCP/IPv6 Mode/DHCPv6 Info Only	No	Display - TCP/IPv6 Mode/DHCPv6 Address And Info	No
Display - TCP/IPv4 Mode/TCP/IPv4 address update in progress	No	Display - TCP/IPv4 Mode/TCP/IPv4 Static	Yes
Display - TCP/IPv4 Mode/TCP/IPv4 BOOTP	No	Display - TCP/IPv4 Mode/TCP/IPv4 DHCP	No
Display - TCP/IPv4 Mode/TCP/IPv4 Disable	No	Display - TCP/IPv4 Mode/TCP/IPv4 Enable	Yes
NMC Slot 1			
NMC 1 - TCP/IPv4 System IP	0.0.0.0	NMC 1 - TCP/IPv4 Subnet Mask	0.0.0.0
NMC 1 - TCP/IPv4 Default Gateway	0.0.0.0	NMC 1 - TCP/IPv6 System IP	0000:0000:0000:0000:0000:0000:0000:0000
NMC 1 - TCP/IPv6 Gateway	0000:0000:0000:0000:0000:0000:0000:0000	NMC 1 - TCP/IPv6 Prefix	64
NMC 1 - Modbus address	1	NMC 1 - ModBus Baud Rate	9600
NMC 1 - Modbus Enable/Modbus RTU	Enable	NMC 1 - Modbus Enable/Modbus TCP	Disable

NMC 1 - Modbus TCP Port	502	NMC 1 - Modbus Format	Parity Even
NMC 1 - TCP/IPv6 Mode/IPv6 Disabled	No	NMC 1 - TCP/IPv6 Mode/IPv6 Enabled	Yes
NMC 1 - TCP/IPv6 Mode/IPv6 AutoConf Disabled	No	NMC 1 - TCP/IPv6 Mode/IPv6 AutoConf Enabled	Yes
NMC 1 - TCP/IPv6 Mode/DHCPv6 Disabled	No	NMC 1 - TCP/IPv6 Mode/DHCPv6 Router Controlled	Yes
NMC 1 - TCP/IPv6 Mode/DHCPv6 Info Only	No	NMC 1 - TCP/IPv6 Mode/DHCPv6 Address And Info	No
NMC 1 - TCP/IPv4 Mode/TCP/IPv4 address update in progress	No	NMC 1 - TCP/IPv4 Mode/TCP/IPv4 Static	No
NMC 1 - TCP/IPv4 Mode/TCP/IPv4 BOOTP	No	NMC 1 - TCP/IPv4 Mode/TCP/IPv4 DHCP	Yes
NMC 1 - TCP/IPv4 Mode/TCP/IPv4 Disable	No	NMC 1 - TCP/IPv4 Mode/TCP/IPv4 Enable	Yes
NMC 1 - Probe 1 Name	x	NMC 1 - Probe 2 Name	x
NMC Slot 2			
NMC 2 - TCP/IPv4 System IP	0.0.0.0	NMC 2 - TCP/IPv4 Subnet Mask	0.0.0.0
NMC 2 - TCP/IPv4 Default Gateway	0.0.0.0	NMC 2 - TCP/IPv6 System IP	0000:0000:0000:0000:0000:0000:0000:0000
NMC 2 - TCP/IPv6 Gateway	0000:0000:0000:0000:0000:0000:0000:0000	NMC 2 - TCP/IPv6 Prefix	64
NMC 2 - Modbus address	1	NMC 2 - ModBus Baud Rate	9600 Bits/s
NMC 2 - Modbus Enable/Modbus RTU	Enable	NMC 2 - Modbus Enable/Modbus TCP	Disable
NMC 2 - Modbus TCP Port	502	NMC 2 - Modbus Format	Parity Even
NMC 2 - TCP/IPv6 Mode/IPv6 Disabled	No	NMC 2 - TCP/IPv6 Mode/IPv6 Enabled	Yes
NMC 2 - TCP/IPv6 Mode/IPv6 AutoConf Disabled	No	NMC 2 - TCP/IPv6 Mode/IPv6 AutoConf Enabled	Yes
NMC 2 - TCP/IPv6 Mode/DHCPv6 Disabled	No	NMC 2 - TCP/IPv6 Mode/DHCPv6 Router Controlled	Yes
NMC 2 - TCP/IPv6 Mode/DHCPv6 Info Only	No	NMC 2 - TCP/IPv6 Mode/DHCPv6 Address And Info	No
NMC 2 - TCP/IPv4 Mode/TCP/IPv4 address update in progress	No	NMC 2 - TCP/IPv4 Mode/TCP/IPv4 Static	No
NMC 2 - TCP/IPv4 Mode/TCP/IPv4 BOOTP	No	NMC 2 - TCP/IPv4 Mode/TCP/IPv4 DHCP	Yes
NMC 2 - TCP/IPv4 Mode/TCP/IPv4 Disable	No	NMC 2 - TCP/IPv4 Mode/TCP/IPv4 Enable	Yes
NMC 2 - Probe 1 Name	x	NMC 2 - Probe 2 Name	x

ECO/ECOnversion Settings			
ECO Mode			
High Efficiency Enable/Always	Enable	High Efficiency Mode Setup/Always	Disable
High Efficiency Mode Setup/During peak shaving mode	Enable	High Efficiency Mode Setup/Never	Disable
High Efficiency (ECO Mode) Schedule Time 1	00:00 (h:mm)	High Efficiency (ECO Mode) Program 1 Start Day/Enable	Disable
High Efficiency (ECO Mode) Program 1 Start Day/Sunday	Disable	High Efficiency (ECO Mode) Program 1 Start Day/Monday	Enable
High Efficiency (ECO Mode) Program 1 Start Day/Tuesday	Disable	High Efficiency (ECO Mode) Program 1 Start Day/Wednesday	Disable

High Efficiency (ECO Mode) Program 1 Start Day/Thursday	Disable	High Efficiency (ECO Mode) Program 1 Start Day/Friday	Disable
High Efficiency (ECO Mode) Program 1 Start Day/Saturday	Disable	High Efficiency (ECO Mode) Schedule Time 2	00:00 (h:mm)
High Efficiency (ECO Mode) Program 1 End Day/Enable	Disable	High Efficiency (ECO Mode) Program 1 End Day/Sunday	Disable
High Efficiency (ECO Mode) Program 1 End Day/Monday	Enable	High Efficiency (ECO Mode) Program 1 End Day/Tuesday	Disable
High Efficiency (ECO Mode) Program 1 End Day/Wednesday	Disable	High Efficiency (ECO Mode) Program 1 End Day/Thursday	Disable
High Efficiency (ECO Mode) Program 1 End Day/Friday	Disable	High Efficiency (ECO Mode) Program 1 End Day/Saturday	Disable
High Efficiency (ECO Mode) Schedule Time 3	00:00 (h:mm)	High Efficiency (ECO Mode) Program 2 Start Day/Enable	Disable
High Efficiency (ECO Mode) Program 2 Start Day/Sunday	Disable	High Efficiency (ECO Mode) Program 2 Start Day/Monday	Enable
High Efficiency (ECO Mode) Program 2 Start Day/Tuesday	Disable	High Efficiency (ECO Mode) Program 2 Start Day/Wednesday	Disable
High Efficiency (ECO Mode) Program 2 Start Day/Thursday	Disable	High Efficiency (ECO Mode) Program 2 Start Day/Friday	Disable
High Efficiency (ECO Mode) Program 2 Start Day/Saturday	Disable	High Efficiency (ECO Mode) Schedule Time 4	00:00 (h:mm)
High Efficiency (ECO Mode) Program 2 End Day/Enable	Disable	High Efficiency (ECO Mode) Program 2 End Day/Sunday	Disable
High Efficiency (ECO Mode) Program 2 End Day/Monday	Enable	High Efficiency (ECO Mode) Program 2 End Day/Tuesday	Disable
High Efficiency (ECO Mode) Program 2 End Day/Wednesday	Disable	High Efficiency (ECO Mode) Program 2 End Day/Thursday	Disable
High Efficiency (ECO Mode) Program 2 End Day/Friday	Disable	High Efficiency (ECO Mode) Program 2 End Day/Saturday	Disable
High Efficiency (ECO Mode) Schedule Time 5	00:00 (h:mm)	High Efficiency (ECO Mode) Program 3 Start Day/Enable	Disable
High Efficiency (ECO Mode) Program 3 Start Day/Sunday	Disable	High Efficiency (ECO Mode) Program 3 Start Day/Monday	Enable
High Efficiency (ECO Mode) Program 3 Start Day/Tuesday	Disable	High Efficiency (ECO Mode) Program 3 Start Day/Wednesday	Disable
High Efficiency (ECO Mode) Program 3 Start Day/Thursday	Disable	High Efficiency (ECO Mode) Program 3 Start Day/Friday	Disable
High Efficiency (ECO Mode) Program 3 Start Day/Saturday	Disable	High Efficiency (ECO Mode) Schedule Time 6	00:00 (h:mm)
High Efficiency (ECO Mode) Program 3 End Day/Enable	Disable	High Efficiency (ECO Mode) Program 3 End Day/Sunday	Disable
High Efficiency (ECO Mode) Program 3 End Day/Monday	Enable	High Efficiency (ECO Mode) Program 3 End Day/Tuesday	Disable
High Efficiency (ECO Mode) Program 3 End Day/Wednesday	Disable	High Efficiency (ECO Mode) Program 3 End Day/Thursday	Disable
High Efficiency (ECO Mode) Program 3 End Day/Friday	Disable	High Efficiency (ECO Mode) Program 3 End Day/Saturday	Disable
High Efficiency (ECO Mode) Schedule Time 7	00:00 (h:mm)	High Efficiency (ECO Mode) Program 4 Start Day/Enable	Disable
High Efficiency (ECO Mode) Program 4 Start Day/Sunday	Disable	High Efficiency (ECO Mode) Program 4 Start Day/Monday	Enable

High Efficiency (ECO Mode) Program 4 Start Day/Tuesday	Disable	High Efficiency (ECO Mode) Program 4 Start Day/Wednesday	Disable
High Efficiency (ECO Mode) Program 4 Start Day/Thursday	Disable	High Efficiency (ECO Mode) Program 4 Start Day/Friday	Disable
High Efficiency (ECO Mode) Program 4 Start Day/Saturday	Disable	High Efficiency (ECO Mode) Schedule Time 8	00:00 (h:mm)
High Efficiency (ECO Mode) Program 4 End Day/Enable	Disable	High Efficiency (ECO Mode) Program 4 End Day/Sunday	Disable
High Efficiency (ECO Mode) Program 4 End Day/Monday	Enable	High Efficiency (ECO Mode) Program 4 End Day/Tuesday	Disable
High Efficiency (ECO Mode) Program 4 End Day/Wednesday	Disable	High Efficiency (ECO Mode) Program 4 End Day/Thursday	Disable
High Efficiency (ECO Mode) Program 4 End Day/Friday	Disable	High Efficiency (ECO Mode) Program 4 End Day/Saturday	Disable
High Efficiency (ECO Mode) Schedule Time 9	00:00 (h:mm)	High Efficiency (ECO Mode) Program 5 Start Day/Enable	Disable
High Efficiency (ECO Mode) Program 5 Start Day/Sunday	Disable	High Efficiency (ECO Mode) Program 5 Start Day/Monday	Enable
High Efficiency (ECO Mode) Program 5 Start Day/Tuesday	Disable	High Efficiency (ECO Mode) Program 5 Start Day/Wednesday	Disable
High Efficiency (ECO Mode) Program 5 Start Day/Thursday	Disable	High Efficiency (ECO Mode) Program 5 Start Day/Friday	Disable
High Efficiency (ECO Mode) Program 5 Start Day/Saturday	Disable	High Efficiency (ECO Mode) Schedule Time 10	00:00 (h:mm)
High Efficiency (ECO Mode) Program 5 End Day/Enable	Disable	High Efficiency (ECO Mode) Program 5 End Day/Sunday	Disable
High Efficiency (ECO Mode) Program 5 End Day/Monday	Enable	High Efficiency (ECO Mode) Program 5 End Day/Tuesday	Disable
High Efficiency (ECO Mode) Program 5 End Day/Wednesday	Disable	High Efficiency (ECO Mode) Program 5 End Day/Thursday	Disable
High Efficiency (ECO Mode) Program 5 End Day/Friday	Disable	High Efficiency (ECO Mode) Program 5 End Day/Saturday	Disable
High Efficiency (ECO Mode) Schedule Time 11	00:00 (h:mm)	High Efficiency (ECO Mode) Program 6 Start Day/Enable	Disable
High Efficiency (ECO Mode) Program 6 Start Day/Sunday	Disable	High Efficiency (ECO Mode) Program 6 Start Day/Monday	Enable
High Efficiency (ECO Mode) Program 6 Start Day/Tuesday	Disable	High Efficiency (ECO Mode) Program 6 Start Day/Wednesday	Disable
High Efficiency (ECO Mode) Program 6 Start Day/Thursday	Disable	High Efficiency (ECO Mode) Program 6 Start Day/Friday	Disable
High Efficiency (ECO Mode) Program 6 Start Day/Saturday	Disable	High Efficiency (ECO Mode) Schedule Time 12	00:00 (h:mm)
High Efficiency (ECO Mode) Program 6 End Day/Enable	Disable	High Efficiency (ECO Mode) Program 6 End Day/Sunday	Disable
High Efficiency (ECO Mode) Program 6 End Day/Monday	Enable	High Efficiency (ECO Mode) Program 6 End Day/Tuesday	Disable
High Efficiency (ECO Mode) Program 6 End Day/Wednesday	Disable	High Efficiency (ECO Mode) Program 6 End Day/Thursday	Disable
High Efficiency (ECO Mode) Program 6 End Day/Friday	Disable	High Efficiency (ECO Mode) Program 6 End Day/Saturday	Disable
High Efficiency (ECO Mode) Schedule Time 13	00:00 (h:mm)	High Efficiency (ECO Mode) Program 7 Start Day/Enable	Disable

High Efficiency (ECO Mode) Program 7 Start Day/Sunday	Disable	High Efficiency (ECO Mode) Program 7 Start Day/Monday	Enable
High Efficiency (ECO Mode) Program 7 Start Day/Tuesday	Disable	High Efficiency (ECO Mode) Program 7 Start Day/Wednesday	Disable
High Efficiency (ECO Mode) Program 7 Start Day/Thursday	Disable	High Efficiency (ECO Mode) Program 7 Start Day/Friday	Disable
High Efficiency (ECO Mode) Program 7 Start Day/Saturday	Disable	High Efficiency (ECO Mode) Schedule Time 14	00:00 (h:mm)
High Efficiency (ECO Mode) Program 7 End Day/Enable	Disable	High Efficiency (ECO Mode) Program 7 End Day/Sunday	Disable
High Efficiency (ECO Mode) Program 7 End Day/Monday	Enable	High Efficiency (ECO Mode) Program 7 End Day/Tuesday	Disable
High Efficiency (ECO Mode) Program 7 End Day/Wednesday	Disable	High Efficiency (ECO Mode) Program 7 End Day/Thursday	Disable
High Efficiency (ECO Mode) Program 7 End Day/Friday	Disable	High Efficiency (ECO Mode) Program 7 End Day/Saturday	Disable
High Efficiency Mode	Enable with charging disabled	ECOnversion Harmonics Compensator/Enable	No

LCM Setting			
Reminder Management			
User Reminder/Notification	Enable	User Reminder/Notification for Condition-Based LCM	Disable
Start Time of Day for User Reminders	08:00 (h:mm)	Stop Time of Day for User Reminders	10:00 (h:mm)
Remaining Time			
Start-up - Remaining time	0 Day(s)	Warranty - Remaining time	0 Day(s)
Battery Technical Check - Remaining time	0 Day(s)	Fans Technical Check - Remaining time	0 Day(s)
Air Filter Technical Check - Remaining time	0 Day(s)	Display Technical Check - Remaining time	0 Day(s)
Revitalization - Remaining time	720 Day(s)	Tech Check main PSU - Remaining time	720 Day(s)
Tech Check main PSU - Remaining time	720 Day(s)		
Warranty			
Warranty - Duration	48 Month(s)		
Battery			
Time-Based - Duration	4 Year(s)	Time-Based Reminder/Notification	Enable
Fans			
Time-Based - Elapsed time	8 Year(s)		
Time-Based Air Filter			
Air Filter Tech Check - Duration	52 Week(s)	Air Filter Tech Check Reminder/Notification	Enable
Time-Based Display			
Display Tech Check - Elapsed time	8 Year(s)		
Revitalization			
Revitalization - Elapsed time	8 Year(s)		
Condition-Based Contactors			
Tech check of Input Contactor - Number of operations	1216	Tech check of Output Contactor - Number of operations	7
Tech check of ZX Contactor - Number of operations	1310	Tech check of Bypass Backfeed Contactor - Number of operations	466

Tech check of Neutral Bonding Contactor - Number of operations	0		
Time-Based Main PSU			
Tech Check of Main PSU1 - Elapsed time	8 Year(s)	Tech Check of Main PSU2 - Elapsed time	8 Year(s)

General Settings			
Service Contact Phone number	*6235990 Ext. 1112, 1312, 1315*	Service Contract Reference	********COTEL S.A********** *

Diagnostics

UPS States			
General Battery			
Charger and Battery Status/Charger	OK	Charger and Battery Status/Battery	OK
Battery Charger Mode Status	Float Charging	BB status/BB1	Closed
BB status/BB2	Closed		
Bypass			
Bypass Controller Status	Normal		
UPS System			
SPoT Elapsed Time	00:00 (h:mm)		

Measurement			
General Battery			
Battery DC current	1.8 A	Battery Active Power	0.9 kW
Battery Recharge Time	00:26 (h:mm)	Battery Runtime	39:23 (h:mm)
Battery Charge in %	93 %	Total Battery Capacity	225 Ah
Battery DC voltage	545 V		
Modular Battery			
DC current of ModBC 1 String 1	-57.6 A	DC current of ModBC 1 String 2	-58.4 A
DC current of ModBC 1 String 3	-58.5 A	DC current of ModBC 1 String 4	-58.5 A
DC current of ModBC 1 String 5	-58.3 A	DC current of ModBC 1 String 6	-58.7 A
DC current of ModBC 1 String 7	-57.6 A	DC current of ModBC 1 String 8	-57.8 A
DC current of ModBC 1 String 9	-57.7 A	DC current of ModBC 1 String 10	-57.5 A
DC current of ModBC 1 String 11	-57.5 A	DC current of ModBC 1 String 12	-57.3 A
Battery Temperature ModBC 1	295.15 K	DC current of ModBC 2 String 1	-57.3 A
DC current of ModBC 2 String 2	-57.1 A	DC current of ModBC 2 String 3	-57.1 A
DC current of ModBC 2 String 4	-57.2 A	DC current of ModBC 2 String 5	-57.2 A
DC current of ModBC 2 String 6	-57.2 A	DC current of ModBC 2 String 7	-57.0 A
DC current of ModBC 2 String 8	-57.3 A	DC current of ModBC 2 String 9	-57.5 A
DC current of ModBC 2 String 10	-57.7 A	DC current of ModBC 2 String 11	-58.0 A
DC current of ModBC 2 String 12	-58.0 A	Battery Temperature ModBC 2	295.15 K
DC current of ModBC 3 String 1	-58.1 A	DC current of ModBC 3 String 2	-57.9 A
DC current of ModBC 3 String 3	-56.8 A	DC current of ModBC 3 String 4	-56.4 A
DC current of ModBC 3 String 5	-56.8 A	DC current of ModBC 3 String 6	-57.3 A

DC current of ModBC 3 String 7	0.0 A	DC current of ModBC 3 String 8	0.0 A
DC current of ModBC 3 String 9	0.0 A	DC current of ModBC 3 String 10	0.0 A
DC current of ModBC 3 String 11	0.0 A	DC current of ModBC 3 String 12	0.0 A
Battery Temperature ModBC 3	295.15 K	DC current of ModBC 4 String 1	0.0 A
DC current of ModBC 4 String 2	0.0 A	DC current of ModBC 4 String 3	0.0 A
DC current of ModBC 4 String 4	0.0 A	DC current of ModBC 4 String 5	0.0 A
DC current of ModBC 4 String 6	0.0 A	DC current of ModBC 4 String 7	0.0 A
DC current of ModBC 4 String 8	0.0 A	DC current of ModBC 4 String 9	0.0 A
DC current of ModBC 4 String 10	0.0 A	DC current of ModBC 4 String 11	0.0 A
DC current of ModBC 4 String 12	0.0 A	Battery Temperature ModBC 4	273.15 K
DC current of ModBC 5 String 1	0.0 A	DC current of ModBC 5 String 2	0.0 A
DC current of ModBC 5 String 3	0.0 A	DC current of ModBC 5 String 4	0.0 A
DC current of ModBC 5 String 5	0.0 A	DC current of ModBC 5 String 6	0.0 A
DC current of ModBC 5 String 7	0.0 A	DC current of ModBC 5 String 8	0.0 A
DC current of ModBC 5 String 9	0.0 A	DC current of ModBC 5 String 10	0.0 A
DC current of ModBC 5 String 11	0.0 A	DC current of ModBC 5 String 12	0.0 A
Battery Temperature ModBC 5	273.15 K	DC current of ModBC 6 String 1	0.0 A
DC current of ModBC 6 String 2	0.0 A	DC current of ModBC 6 String 3	0.0 A
DC current of ModBC 6 String 4	0.0 A	DC current of ModBC 6 String 5	0.0 A
DC current of ModBC 6 String 6	0.0 A	DC current of ModBC 6 String 7	0.0 A
DC current of ModBC 6 String 8	0.0 A	DC current of ModBC 6 String 9	0.0 A
DC current of ModBC 6 String 10	0.0 A	DC current of ModBC 6 String 11	0.0 A
DC current of ModBC 6 String 12	0.0 A	Battery Temperature ModBC 6	273.15 K
DC current of ModBC 7 String 1	0.0 A	DC current of ModBC 7 String 2	0.0 A
DC current of ModBC 7 String 3	0.0 A	DC current of ModBC 7 String 4	0.0 A
DC current of ModBC 7 String 5	0.0 A	DC current of ModBC 7 String 6	0.0 A
DC current of ModBC 7 String 7	0.0 A	DC current of ModBC 7 String 8	0.0 A
DC current of ModBC 7 String 9	0.0 A	DC current of ModBC 7 String 10	0.0 A
DC current of ModBC 7 String 11	0.0 A	DC current of ModBC 7 String 12	0.0 A
Battery Temperature ModBC 7	273.15 K	DC current of ModBC 8 String 1	0.0 A
DC current of ModBC 8 String 2	0.0 A	DC current of ModBC 8 String 3	0.0 A
DC current of ModBC 8 String 4	0.0 A	DC current of ModBC 8 String 5	0.0 A
DC current of ModBC 8 String 6	0.0 A	DC current of ModBC 8 String 7	0.0 A
DC current of ModBC 8 String 8	0.0 A	DC current of ModBC 8 String 9	0.0 A
DC current of ModBC 8 String 10	0.0 A	DC current of ModBC 8 String 11	0.0 A
DC current of ModBC 8 String 12	0.0 A	Battery Temperature ModBC 8	273.15 K
UPS System			
Classic Battery Temperature	273.15 K	Ambient Temperature	293.15 K
Exhaust Air Temperature	273.15 K		
Bypass			
Bypass Apparent Power	0 kVA	Bypass Frequency	59.7 Hz
L 1 Bypass Apparent Power	0 kVA	L 1 Bypass AC Current	1 A
L 1 Bypass Maximum RMS Current	37 A	L 1 Bypass Power Factor	0.00
L 1 Bypass Active Power	0 kW	L 1 - N Bypass Voltage	275 V

L 1 - L 2 Bypass Voltage	474 V	L 2 Bypass Apparent Power	0 kVA
L 2 Bypass AC Current	1 A	L 2 Bypass Maximum RMS Current	38 A
L 2 Bypass Power Factor	0.00	L 2 Bypass Active Power	0 kW
L 2 - N Bypass Voltage	273 V	L 2 - L 3 Bypass Voltage	472 V
L 3 Bypass Apparent Power	0 kVA	L 3 Bypass AC Current	1 A
L 3 Bypass Maximum RMS Current	36 A	L 3 Bypass Power Factor	0.00
L 3 Bypass Active Power	0 kW	L 3 - N Bypass Voltage	274 V
L 3 - L 1 Bypass Voltage	475 V	Bypass Active Power	0 kW
NMC Slot 1			
NMC 1 - Probe 1 - Humidity	0.0 %	NMC 1 - Probe 1 - Temperature	273.15 K
NMC 1 - Probe 2 - Humidity	0.0 %	NMC 1 - Probe 2 - Temperature	273.15 K
NMC Slot 2			
NMC 2 - Probe 1 - Humidity	0.0 %	NMC 2 - Probe 1 - Temperature	273.15 K
NMC 2 - Probe 2 - Humidity	0.0 %	NMC 2 - Probe 2 - Temperature	273.15 K
Input			
Input Total Apparent Power	10 kVA	Input Frequency	59.7 Hz
L 1 Input Apparent Power	3 kVA	L 1 Input AC Current	13 A
L 1 Input Maximum RMS Current	15 A	L 1 Input Power Factor	0.18
L 1 Input Active Power	0 kW	L 1 - N Input Voltage	274 V
L 1 - L 2 Input Voltage	470 V	L 2 Input Apparent Power	3 kVA
L 2 Input AC Current	13 A	L 2 Input Maximum RMS Current	14 A
L 2 Input Power Factor	0.10	L 2 Input Active Power	0 kW
L 2 - N Input Voltage	270 V	L 2 - L 3 Input Voltage	470 V
L 3 Input Apparent Power	3 kVA	L 3 Input AC Current	13 A
L 3 Input Maximum RMS Current	14 A	L 3 Input Power Factor	0.13
L 3 Input Active Power	0 kW	L 3 - N Input Voltage	271 V
L 3 - L 1 Input Voltage	469 V	Input Total Active Power	1 kW
Input kWh	154901 kWh		
Output			
Output Apparent Power (%)	1 %	Output Total Apparent Power	1 kVA
Output Frequency	59.7 Hz	N Output AC Current	3 A
L 1 Output Apparent Power	0 kVA	L 1 Output AC Current	2 A
L 1 Output Current Crest Factor	3.0	L 1 Output Maximum RMS Current	19 A
L 1 Output THDI	5.2 %	L 1 Output Power Factor	0.00
L 1 Output Active Power	0 kW	L 1 - N Output Voltage	279 V
L 1 - L 2 Output Voltage	482 V	L 2 Output Apparent Power	0 kVA
L 2 Output AC Current	1 A	L 2 Output Current Crest Factor	3.0
L 2 Output Maximum RMS Current	20 A	L 2 Output THDI	0.0 %
L 2 Output Power Factor	0.00	L 2 Output Active Power	0 kW
L 2 - N Output Voltage	277 V	L 2 - L 3 Output Voltage	480 V
L 3 Output Apparent Power	0 kVA	L 3 Output AC Current	3 A
L 3 Output Current Crest Factor	3.0	L 3 Output Maximum RMS Current	18 A
L 3 Output THDI	2.1 %	L 3 Output Power Factor	0.00
L 3 Output Active Power	0 kW	L 3 - N Output Voltage	279 V

L 3 - L 1 Output Voltage	483 V	Output Total Active Power	0 kW
Output kWh	140866 kWh		
Parallel System			
Parallel Bypass L 1 AC current	2 A	Parallel Bypass L 2 AC current	2 A
Parallel Bypass L 3 AC current	2 A	Parallel Input L 1 AC current	26 A
Parallel Input L 2 AC current	25 A	Parallel Input L 3 AC current	26 A
Parallel Output Total Apparent Power (%)	1 %	Parallel Output Total Apparent Power	3 kVA
Parallel Output L 1 AC current	3 A	Parallel Output L 2 AC current	5 A
Parallel Output L 3 AC current	4 A		

Modular Battery States			
Modular Battery			
Battery String Number in ModBC 1/Battery String 1	Present	Battery String Number in ModBC 1/Battery String 2	Not Present
Battery String Number in ModBC 1/Battery String 3	Present	Battery String Number in ModBC 1/Battery String 4	Present
Battery String Number in ModBC 1/Battery String 5	Present	Battery String Number in ModBC 1/Battery String 6	Present
Battery String Number in ModBC 1/Battery String 7	Present	Battery String Number in ModBC 1/Battery String 8	Present
Battery String Number in ModBC 1/Battery String 9	Present	Battery String Number in ModBC 1/Battery String 10	Present
Battery String Number in ModBC 1/Battery String 11	Present	Battery String Number in ModBC 1/Battery String 12	Present
BMC Status of ModBC 1	Normal	BB Presence in ModBC 1/BB1	Present
BB Presence in ModBC 1/BB2	Present	BB of ModBC 1 /BB1	Closed
BB of ModBC 1 /BB2	Closed	Battery String Number in ModBC 2/Battery String 1	Present
Battery String Number in ModBC 2/Battery String 2	Present	Battery String Number in ModBC 2/Battery String 3	Present
Battery String Number in ModBC 2/Battery String 4	Present	Battery String Number in ModBC 2/Battery String 5	Present
Battery String Number in ModBC 2/Battery String 6	Present	Battery String Number in ModBC 2/Battery String 7	Present
Battery String Number in ModBC 2/Battery String 8	Present	Battery String Number in ModBC 2/Battery String 9	Present
Battery String Number in ModBC 2/Battery String 10	Present	Battery String Number in ModBC 2/Battery String 11	Present
Battery String Number in ModBC 2/Battery String 12	Present	BMC Status of ModBC 2	Normal
BB Presence in ModBC 2/BB1	Present	BB Presence in ModBC 2/BB2	Present
BB of ModBC 2/BB1	Closed	BB of ModBC 2/BB2	Closed
Battery String Number in ModBC 3/Battery String 1	Not Present	Battery String Number in ModBC 3/Battery String 2	Not Present
Battery String Number in ModBC 3/Battery String 3	Not Present	Battery String Number in ModBC 3/Battery String 4	Not Present
Battery String Number in ModBC 3/Battery String 5	Present	Battery String Number in ModBC 3/Battery String 6	Present
Battery String Number in ModBC 3/Battery String 7	Not Present	Battery String Number in ModBC 3/Battery String 8	Not Present

Battery String Number in ModBC 3/Battery String 9	Not Present	Battery String Number in ModBC 3/Battery String 10	Not Present
Battery String Number in ModBC 3/Battery String 11	Not Present	Battery String Number in ModBC 3/Battery String 12	Not Present
BMC Status of ModBC 3	Normal	BB Presence in ModBC 3/BB1	Present
BB Presence in ModBC 3/BB2	Not Present	BB of ModBC 3/BB1	Closed
BB of ModBC 3/BB2	Open	Battery String Number in ModBC 4/Battery String 1	Not Present
Battery String Number in ModBC 4/Battery String 2	Not Present	Battery String Number in ModBC 4/Battery String 3	Not Present
Battery String Number in ModBC 4/Battery String 4	Not Present	Battery String Number in ModBC 4/Battery String 5	Not Present
Battery String Number in ModBC 4/Battery String 6	Not Present	Battery String Number in ModBC 4/Battery String 7	Not Present
Battery String Number in ModBC 4/Battery String 8	Not Present	Battery String Number in ModBC 4/Battery String 9	Not Present
Battery String Number in ModBC 4/Battery String 10	Not Present	Battery String Number in ModBC 4/Battery String 11	Not Present
Battery String Number in ModBC 4/Battery String 12	Not Present	BMC Status of ModBC 4	Not Present
BB Presence in ModBC 4/BB1	Present	BB Presence in ModBC 4/BB2	Not Present
BB of ModBC 4/BB1	Closed	BB of ModBC 4/BB2	Closed
Battery String Number in ModBC 5/Battery String 1	Not Present	Battery String Number in ModBC 5/Battery String 2	Not Present
Battery String Number in ModBC 5/Battery String 3	Not Present	Battery String Number in ModBC 5/Battery String 4	Not Present
Battery String Number in ModBC 5/Battery String 5	Not Present	Battery String Number in ModBC 5/Battery String 6	Not Present
Battery String Number in ModBC 5/Battery String 7	Not Present	Battery String Number in ModBC 5/Battery String 8	Not Present
Battery String Number in ModBC 5/Battery String 9	Not Present	Battery String Number in ModBC 5/Battery String 10	Not Present
Battery String Number in ModBC 5/Battery String 11	Not Present	Battery String Number in ModBC 5/Battery String 12	Not Present
BMC Status of ModBC 5	Not Present	BB Presence in ModBC 5/BB1	Present
BB Presence in ModBC 5/BB2	Not Present	BB of ModBC 5/BB1	Closed
BB of ModBC 5/BB2	Closed	Battery String Number in ModBC 6/Battery String 1	Not Present
Battery String Number in ModBC 6/Battery String 2	Not Present	Battery String Number in ModBC 6/Battery String 3	Not Present
Battery String Number in ModBC 6/Battery String 4	Not Present	Battery String Number in ModBC 6/Battery String 5	Not Present
Battery String Number in ModBC 6/Battery String 6	Not Present	Battery String Number in ModBC 6/Battery String 7	Not Present
Battery String Number in ModBC 6/Battery String 8	Not Present	Battery String Number in ModBC 6/Battery String 9	Not Present
Battery String Number in ModBC 6/Battery String 10	Not Present	Battery String Number in ModBC 6/Battery String 11	Not Present
Battery String Number in ModBC 6/Battery String 12	Not Present	BMC Status of ModBC 6	Not Present
BB Presence in ModBC 6/BB1	Present	BB Presence in ModBC 6/BB2	Not Present

BB of ModBC 6/BB1	Closed	BB of ModBC 6/BB2	Closed
Battery String Number in ModBC 7/Battery String 1	Not Present	Battery String Number in ModBC 7/Battery String 2	Not Present
Battery String Number in ModBC 7/Battery String 3	Not Present	Battery String Number in ModBC 7/Battery String 4	Not Present
Battery String Number in ModBC 7/Battery String 5	Not Present	Battery String Number in ModBC 7/Battery String 6	Not Present
Battery String Number in ModBC 7/Battery String 7	Not Present	Battery String Number in ModBC 7/Battery String 8	Not Present
Battery String Number in ModBC 7/Battery String 9	Not Present	Battery String Number in ModBC 7/Battery String 10	Not Present
Battery String Number in ModBC 7/Battery String 11	Not Present	Battery String Number in ModBC 7/Battery String 12	Not Present
BMC Status of ModBC 7	Not Present	BB Presence in ModBC 7/BB1	Present
BB Presence in ModBC 7/BB2	Not Present	BB of ModBC 7/BB1	Closed
BB of ModBC 7/BB2	Closed	Battery String Number in ModBC 8/Battery String 1	Not Present
Battery String Number in ModBC 8/Battery String 2	Not Present	Battery String Number in ModBC 8/Battery String 3	Not Present
Battery String Number in ModBC 8/Battery String 4	Not Present	Battery String Number in ModBC 8/Battery String 5	Not Present
Battery String Number in ModBC 8/Battery String 6	Not Present	Battery String Number in ModBC 8/Battery String 7	Not Present
Battery String Number in ModBC 8/Battery String 8	Not Present	Battery String Number in ModBC 8/Battery String 9	Not Present
Battery String Number in ModBC 8/Battery String 10	Not Present	Battery String Number in ModBC 8/Battery String 11	Not Present
Battery String Number in ModBC 8/Battery String 12	Not Present	BMC Status of ModBC 8	Not Present
BB Presence in ModBC 8/BB1	Present	BB Presence in ModBC 8/BB2	Not Present
BB of ModBC 8/BB1	Closed	BB of ModBC 8/BB2	Closed

Revisions			
Firmware			
BMC Firmware Revision in Cabinet 1	4.0.0.3	BMC Firmware Revision in Cabinet 2	4.0.0.3
BMC Firmware Revision in Cabinet 3	4.0.0.3	BMC Firmware Revision in Cabinet 4	0.0.0.0
BMC Firmware Revision in Cabinet 5	0.0.0.0	BMC Firmware Revision in Cabinet 6	0.0.0.0
BMC Firmware Revision in Cabinet 7	0.0.0.0	BMC Firmware Revision in Cabinet 8	0.0.0.0
SBC Firmware Revision	4.1.0.1	Display Fw rev. (AOS / APP / Boot)	v6.4.0/v6.4.1/ v1.0.8
Display Firmware Compatibility Number	11	NMC 1 Fw rev. (AOS / APP / Boot)	0.0.0.0
NMC 1 Firmware Compatibility Number	0.0.0.0	NMC 2 Fw rev. (AOS / APP / Boot)	0.0.0.0
NMC 2 Firmware Compatibility Number	0.0.0.0	MC Firmware Revision	4.2.0.26
MC Firmware Compatibility Number	11		
Hardware			
BMC Hardware Revision in Cabinet 1	640-3605C REV4	BMC Hardware Revision in Cabinet 2	640-3605C REV4
BMC Hardware Revision in Cabinet 3	640-3605C REV4	BMC Hardware Revision in Cabinet 4	NA

BMC Hardware Revision in Cabinet 5	NA	BMC Hardware Revision in Cabinet 6	NA
BMC Hardware Revision in Cabinet 7	NA	BMC Hardware Revision in Cabinet 8	NA
SBC Hardware Revision	640-3610C REV4	Display Hardware / FPGA version	NA/03.22
NMC1 Hardware Revision	0.0.0.0	NMC2 Hardware Revision	0.0.0.0
MC Hardware Revision	0P3600_0P3603	UCB Hardware Revision	640-3602C REV4
CIB Hardware Revision	640-3600D REV5		
Serial Number			
BMC Serial number 1	443605AC44304869	BMC Serial number 2	443605AC44304980
BMC Serial number 3	443605AC44304962	BMC Serial number 4	0.0.0.0
BMC Serial number 5	0.0.0.0	BMC Serial number 6	0.0.0.0
BMC Serial number 7	0.0.0.0	BMC Serial number 8	0.0.0.0
SBC Serial Number		Display Serial Number	ZD1320000663
NMC 1 Serial number	0.0.0.0	NMC 2 Serial number	0.0.0.0
UPS Serial Number	ID1423000358	MC Serial Number	
IOC Serial Number	ID1405000397		
UPS System			
Product Range Name	Galaxy VM	Main Controller Product ID	3600
Serial Number			
Power Block 1A Serial Number		Power Block 1B Serial Number	
Power Block 2A Serial Number		Power Block 2B Serial Number	
Power Block 3A Serial Number		Power Block 3B Serial Number	

Display & NMC States			
UPS Display			
Display Model Number	0N-9581GVM	Display Status	Normal
NMC Slot 1			
NMC 1 - Probe 1 - Status/Probe present	Yes	NMC 1 - Probe 1 - Status/Temperature Threshold Normal	No
NMC 1 - Probe 1 - Status/Temperature Threshold Warning	No	NMC 1 - Probe 1 - Status/Temperature Threshold Critical	No
NMC 1 - Probe 1 - Status/Humidity Normal	No	NMC 1 - Probe 1 - Status/Humidity Warning	No
NMC 1 - Probe 1 - Status/Humidity Critical	No	NMC 1 - Probe 1 - Status/Input1 Contact Normal	No
NMC 1 - Probe 1 - Status/Input1 Contact Warning	No	NMC 1 - Probe 1 - Status/Input1 Contact Critical	No
NMC 1 - Probe 1 - Status/Input2 Contact Normal	No	NMC 1 - Probe 1 - Status/Input2 Contact Warning	No
NMC 1 - Probe 1 - Status/Input2 Contact Critical	No	NMC 1 - Probe 1 - Status/Output1 Event Active	No
NMC 1 - Probe 1 - Status/Output1 Configuration	No	NMC 1 - Probe 1 - Status/Temperature Low	No

NMC 1 - Probe 1 - Status/Temperature High	No	NMC 1 - Probe 1 - Status/Humidity Low	No
NMC 1 - Probe 1 - Status/Humidity High	No	NMC 1 - Probe 1 - Type	No probe detected
NMC 1 - Probe 2 - Status/Probe present	Yes	NMC 1 - Probe 2 - Status/Temperature Threshold Normal	No
NMC 1 - Probe 2 - Status/Temperature Threshold Warning	No	NMC 1 - Probe 2 - Status/Temperature Threshold Critical	No
NMC 1 - Probe 2 - Status/Humidity Normal	No	NMC 1 - Probe 2 - Status/Humidity Warning	No
NMC 1 - Probe 2 - Status/Humidity Critical	No	NMC 1 - Probe 2 - Status/Input1 Contact Normal	No
NMC 1 - Probe 2 - Status/Input1 Contact Warning	No	NMC 1 - Probe 2 - Status/Input1 Contact Critical	No
NMC 1 - Probe 2 - Status/Input2 Contact Normal	No	NMC 1 - Probe 2 - Status/Input2 Contact Warning	No
NMC 1 - Probe 2 - Status/Input2 Contact Critical	No	NMC 1 - Probe 2 - Status/Output1 Event Active	No
NMC 1 - Probe 2 - Status/Output1 Configuration	No	NMC 1 - Probe 2 - Status/Temperature Low	No
NMC 1 - Probe 2 - Status/Temperature High	No	NMC 1 - Probe 2 - Status/Humidity Low	No
NMC 1 - Probe 2 - Status/Humidity High	No	NMC 1 - Probe 2 - Type	No probe detected
NMC 1 Model Number	Enter Product Name	NMC 1 Communication Status	Not Present
NMC Slot 2			
NMC 2 - Probe 1 - Status/Probe present	Yes	NMC 2 - Probe 1 - Status/Temperature Threshold Normal	No
NMC 2 - Probe 1 - Status/Temperature Threshold Warning	No	NMC 2 - Probe 1 - Status/Temperature Threshold Critical	No
NMC 2 - Probe 1 - Status/Humidity Normal	No	NMC 2 - Probe 1 - Status/Humidity Warning	No
NMC 2 - Probe 1 - Status/Humidity Critical	No	NMC 2 - Probe 1 - Status/Input1 Contact Normal	No
NMC 2 - Probe 1 - Status/Input1 Contact Warning	No	NMC 2 - Probe 1 - Status/Input1 Contact Critical	No
NMC 2 - Probe 1 - Status/Input2 Contact Normal	No	NMC 2 - Probe 1 - Status/Input2 Contact Warning	No
NMC 2 - Probe 1 - Status/Input2 Contact Critical	No	NMC 2 - Probe 1 - Status/Output1 Event Active	No
NMC 2 - Probe 1 - Status/Output1 Configuration	No	NMC 2 - Probe 1 - Status/Temperature Low	No
NMC 2 - Probe 1 - Status/Temperature High	No	NMC 2 - Probe 1 - Status/Humidity Low	No
NMC 2 - Probe 1 - Status/Humidity High	No	NMC 2 - Probe 1 - Type	No probe detected
NMC 2 - Probe 2 - Status/Probe present	Yes	NMC 2 - Probe 2 - Status/Temperature Threshold Normal	No
NMC 2 - Probe 2 - Status/Temperature Threshold Warning	No	NMC 2 - Probe 2 - Status/Temperature Threshold Critical	No
NMC 2 - Probe 2 - Status/Humidity Normal	No	NMC 2 - Probe 2 - Status/Humidity Warning	No
NMC 2 - Probe 2 - Status/Humidity Critical	No	NMC 2 - Probe 2 - Status/Input1 Contact Normal	No
NMC 2 - Probe 2 - Status/Input1 Contact Warning	No	NMC 2 - Probe 2 - Status/Input1 Contact Critical	No

NMC 2 - Probe 2 - Status/Input2 Contact Normal	No	NMC 2 - Probe 2 - Status/Input2 Contact Warning	No
NMC 2 - Probe 2 - Status/Input2 Contact Critical	No	NMC 2 - Probe 2 - Status/Output1 Event Active	No
NMC 2 - Probe 2 - Status/Output1 Configuration	No	NMC 2 - Probe 2 - Status/Temperature Low	No
NMC 2 - Probe 2 - Status/Temperature High	No	NMC 2 - Probe 2 - Status/Humidity Low	No
NMC 2 - Probe 2 - Status/Humidity High	No	NMC 2 - Probe 2 - Type	No probe detected
NMC 2 Model Number	Enter Product Name	NMC 2 Communication Status	Not Present

LCM Status			
Start-up - Remaining reminders	3	Start-up - Reminder status	Reached
Warranty - Remaining reminders	3	Warranty - Reminder status	In progress
Battery Technical Check - Remaining reminders	3	Battery Technical Check - Reminder status	In progress
Fans Technical Check - Remaining reminders	3	Fans Technical Check - Reminder status	In progress
Air Filter Technical Check - Remaining reminders	3	Air Filter Technical Check - Reminder status	In progress
Display Technical Check - Remaining reminders	3	Display Technical Check - Reminder status	In progress
Revitalization - Remaining reminders	3	Revitalization - Reminder status	In progress
Tech Check of PB L1A AC Caps - Remaining reminders	3	Tech check of AC caps of PB L1A - Reminder status	Disabled
Tech Check of PB L1B AC Caps - Remaining reminders	3	Tech check of AC caps of PB L1B - Reminder status	Disabled
Tech Check of PB L2A AC Caps - Remaining reminders	3	Tech check of AC caps of PB L2A- Reminder status	Disabled
Tech Check of PB L2B AC Caps - Remaining reminders	3	Tech check of AC caps of of PB L2B- Reminder status	Disabled
Tech Check of PB L3A AC Caps - Remaining reminders	3	Tech check of AC caps of PB L3A - Reminder status	Disabled
Tech Check of PB L3B AC Caps - Remaining reminders	3	Tech check of AC caps of PB L3B- Reminder status	Disabled
Tech Check of PB L1A DC Caps - Remaining reminders	3	Tech check of DC Capacitors of PB L1A - Reminder status	Disabled
Tech Check of PB L1B DC Caps - Remaining reminders	3	Tech check of DC Capacitors of PB L1B - Reminder status	Disabled
Tech Check of PB L2A DC Caps - Remaining reminders	3	Tech check of DC Capacitors of PB L2A- Reminder status	Disabled
Tech Check of PB L2B DC Caps - Remaining reminders	3	Tech check of DC Capacitors of PB L2B - Reminder status	Disabled
Tech Check of PB L3A DC Caps - Remaining reminders	3	Tech check of DC Capacitors of PB L3A - Reminder status	Disabled
Tech Check of PB L3B DC Caps - Remaining reminders	3	Tech check of DC Capacitors of PB L3B - Reminder status	Disabled
Tech Check of Input contactor - Remaining reminders	3	Tech check of Input contactor - Reminder status	Disabled
Tech Check of Output contactor - Remaining reminders	3	Tech check of Output contactor - Reminder status	Disabled
Tech Check of ZX contactor - Remaining reminders	3	Tech check of ZX contactor - Reminder status	Disabled
Tech Check BF2 contactor - Remaining	3	Tech check of Bypass Backfeed contactor -	Disabled

LCM Status			
reminders		Reminder status	
Tech Check of Main PSU1 - Remaining reminders	3	Tech check of Main PSU1 - Reminder status	Disabled
Tech Check of Main PSU2 - Remaining reminders	3	Tech check of Main PSU2 - Reminder status	Disabled
Tech Check of Neutral Bonding Contactor - Remaining reminders	3	Tech check of Neutral Bonding Contactor - Reminder status	Disabled
Tech Check of Battery - Remaining reminders	3	Tech check of Battery - Reminder status	Disabled
Tech Check of Fans - Remaining reminders	3	Tech check of Fans - Reminder status	Disabled
Tech Check of UIB - Remaining reminders	3	Tech check of UIB - Reminder status	Disabled
Tech Check of SSIB - Remaining reminders	3	Tech check of SSIB - Reminder status	Disabled
Tech Check of UOB - Remaining reminders	3	Tech check of UOB - Reminder status	Disabled
Tech Check of MBB - Remaining reminders	3	Tech check of MBB - Reminder status	Disabled

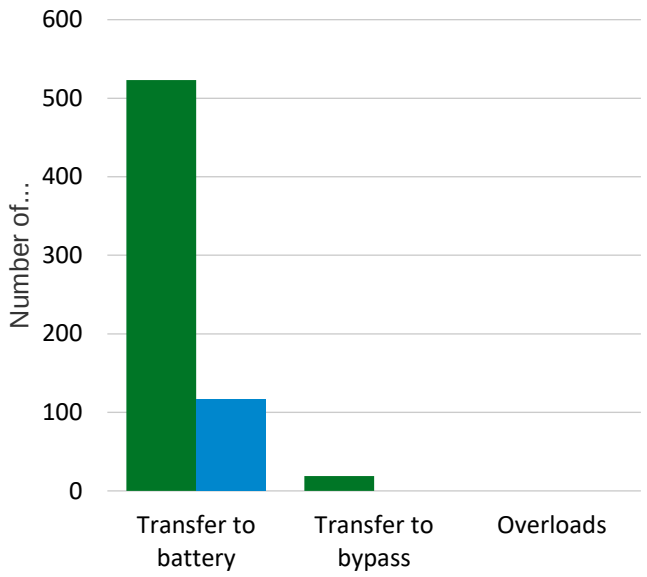
Other			
Output			
Total Output Apparent Power	225 kVA		

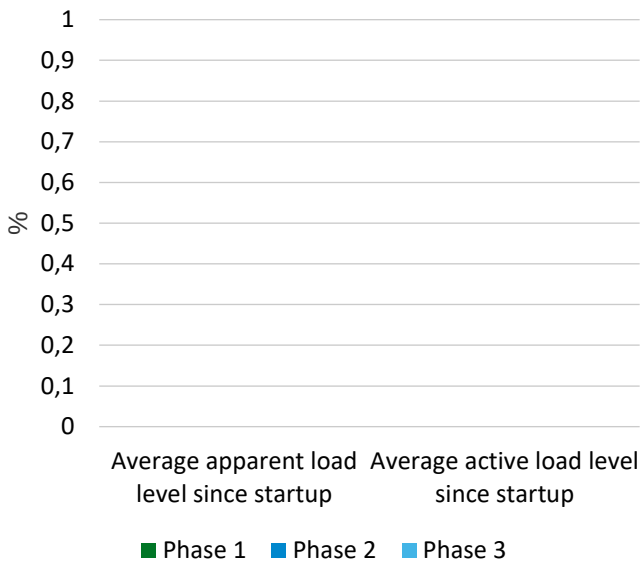
UPS System States			
Parallel System			
Breaker Status UPS 1 /BB1	Closed	Breaker Status UPS 1 /BB2	Closed
Breaker Status UPS 1 /UIB	Closed	Breaker Status UPS 1 /SSIB	Closed
Breaker Status UPS 1 /MBB	Open	Breaker Status UPS 1 /UOB	Closed
Breaker Status UPS 1 /SIB	Closed	Operation Status UPS 1 /On Line	Yes
Operation Status UPS 1 /On Battery	No	Operation Status UPS 1 /On Bypass	No
Operation Status UPS 1 /Load	Powered	Operation Status UPS 1 /Alarm Present	No
Operation Status UPS 1 /Test	No	Operation Status UPS 1 /Commanded	No
Operation Status UPS 1 /Maintenance	No	Operation Status UPS 1 /High Efficiency Mode	No
Operation Status UPS 1 /Alarm Present State	No	Operation Status UPS 1 /Standby Static Bypass	No
Operation Status UPS 1 /Inverter Standby	No	Alarm Status UPS 1	Normal
Breaker Status UPS 2/BB1	Closed	Breaker Status UPS 2/BB2	Closed
Breaker Status UPS 2/UIB	Closed	Breaker Status UPS 2/SSIB	Closed
Breaker Status UPS 2/MBB	Open	Breaker Status UPS 2/UOB	Closed
Breaker Status UPS 2/SIB	Closed	Operation Status UPS 2/On Line	Yes
Operation Status UPS 2/On Battery	No	Operation Status UPS 2/On Bypass	No
Operation Status UPS 2/Load	Powered	Operation Status UPS 2/Alarm Present	No
Operation Status UPS 2/Test	No	Operation Status UPS 2/Commanded	No
Operation Status UPS 2/Maintenance	No	Operation Status UPS 2/High Efficiency Mode	No
Operation Status UPS 2/Alarm Present State	No	Operation Status UPS 2/Standby Static Bypass	No
Operation Status UPS 2/Inverter Standby	No	Alarm Status UPS 2	Normal
Breaker Status UPS 3/BB1	Closed	Breaker Status UPS 3/BB2	Closed
Breaker Status UPS 3/UIB	Open	Breaker Status UPS 3/SSIB	Closed
Breaker Status UPS 3/MBB	Open	Breaker Status UPS 3/UOB	Open
Breaker Status UPS 3/SIB	Closed	Operation Status UPS 3/On Line	No

Operation Status UPS 3/On Battery	No	Operation Status UPS 3/On Bypass	No
Operation Status UPS 3/Load	Not Powered	Operation Status UPS 3/Alarm Present	No
Operation Status UPS 3/Test	No	Operation Status UPS 3/Commanded	No
Operation Status UPS 3/Maintenance	No	Operation Status UPS 3/High Efficiency Mode	No
Operation Status UPS 3/Alarm Present State	No	Operation Status UPS 3/Standby Static Bypass	No
Operation Status UPS 3/Inverter Standby	No	Alarm Status UPS 3	Normal
Breaker Status UPS 4/BB1	Closed	Breaker Status UPS 4/BB2	Closed
Breaker Status UPS 4/UIB	Open	Breaker Status UPS 4/SSIB	Closed
Breaker Status UPS 4/MBB	Open	Breaker Status UPS 4/UOB	Open
Breaker Status UPS 4/SIB	Closed	Operation Status UPS 4/On Line	No
Operation Status UPS 4/On Battery	No	Operation Status UPS 4/On Bypass	No
Operation Status UPS 4/Load	Not Powered	Operation Status UPS 4/Alarm Present	No
Operation Status UPS 4/Test	No	Operation Status UPS 4/Commanded	No
Operation Status UPS 4/Maintenance	No	Operation Status UPS 4/High Efficiency Mode	No
Operation Status UPS 4/Alarm Present State	No	Operation Status UPS 4/Standby Static Bypass	No
Operation Status UPS 4/Inverter Standby	No	Alarm Status UPS 4	Normal
Breaker Status UPS 5/BB1	Closed	Breaker Status UPS 5/BB2	Closed
Breaker Status UPS 5/UIB	Open	Breaker Status UPS 5/SSIB	Closed
Breaker Status UPS 5/MBB	Open	Breaker Status UPS 5/UOB	Open
Breaker Status UPS 5/SIB	Closed	Operation Status UPS 5/On Line	No
Operation Status UPS 5/On Battery	No	Operation Status UPS 5/On Bypass	No
Operation Status UPS 5/Load	Not Powered	Operation Status UPS 5/Alarm Present	No
Operation Status UPS 5/Test	No	Operation Status UPS 5/Commanded	No
Operation Status UPS 5/Maintenance	No	Operation Status UPS 5/High Efficiency Mode	No
Operation Status UPS 5/Alarm Present State	No	Operation Status UPS 5/Standby Static Bypass	No
Operation Status UPS 5/Inverter Standby	No	Alarm Status UPS 5	Normal
Redundancy Status	1		

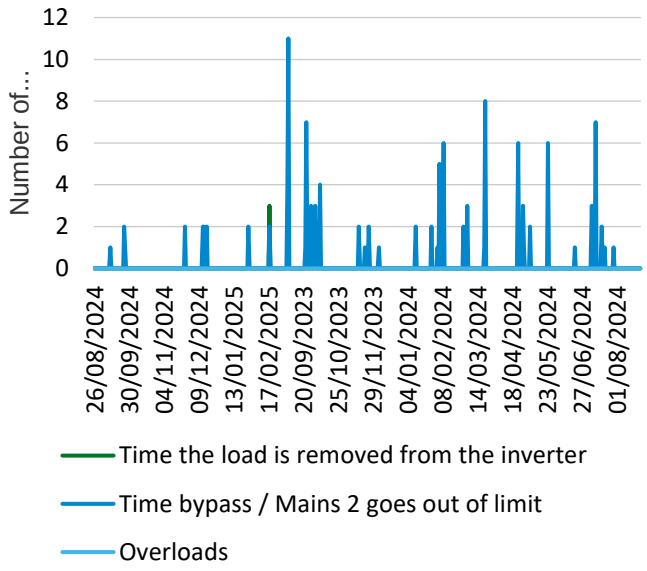
Statistics	
Operation mode	Cumulated load value

Statistics

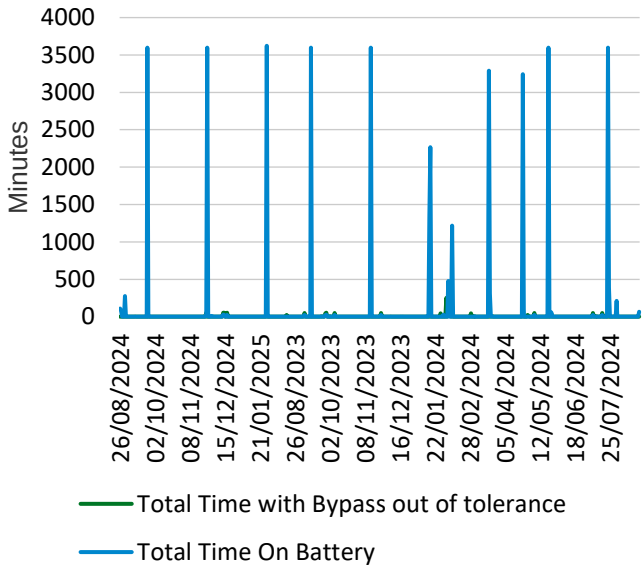




Number of... Mains quality



Total Time Mains quality

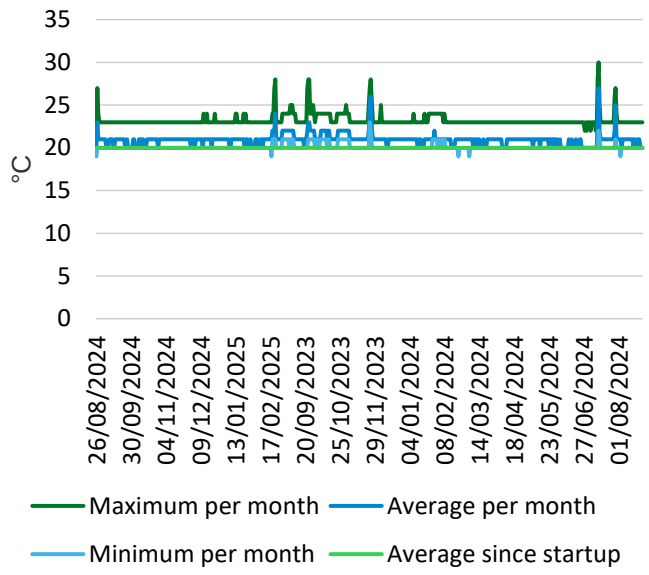


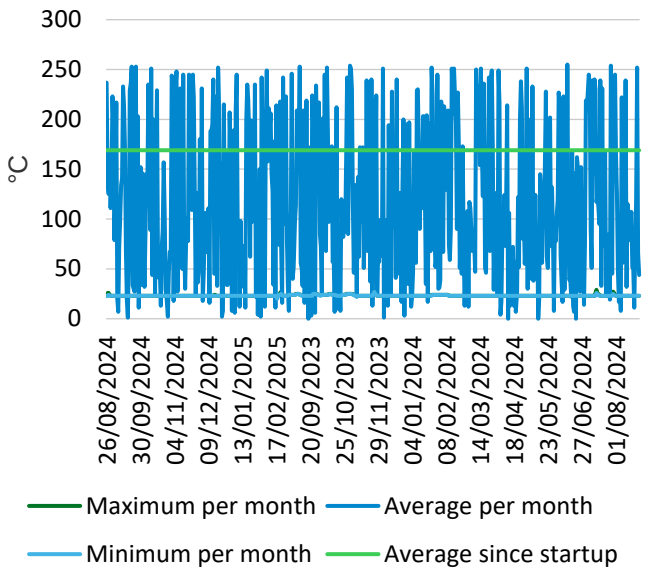
Ambient temperature Ambient temperature

BMC 1 Battery temperature

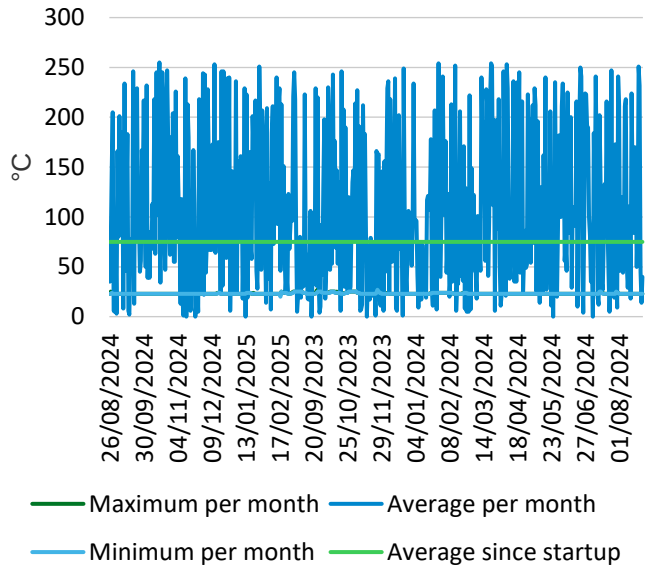
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Statistics

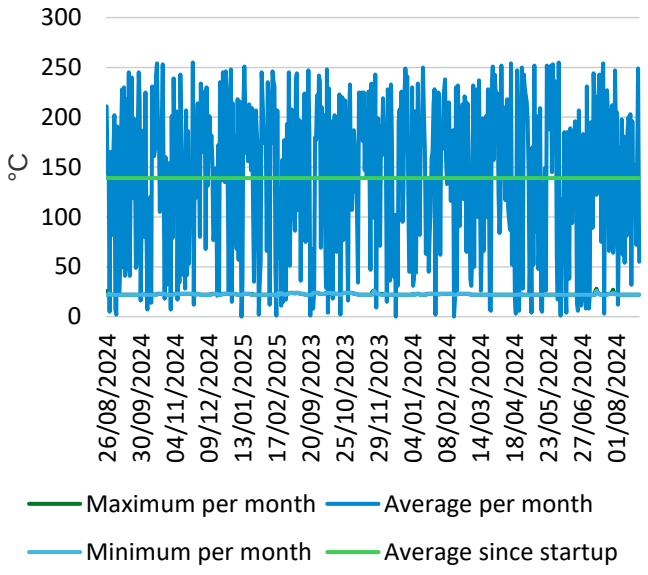




BMC 2 Battery temperature



BMC 3 Battery temperature



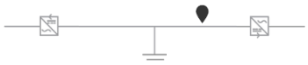
DC Measurements

Health Status: Conforms

Comment:

- EL TEST DE BATERIAS ES SATISFACTORIO.

DC Measurement - Status

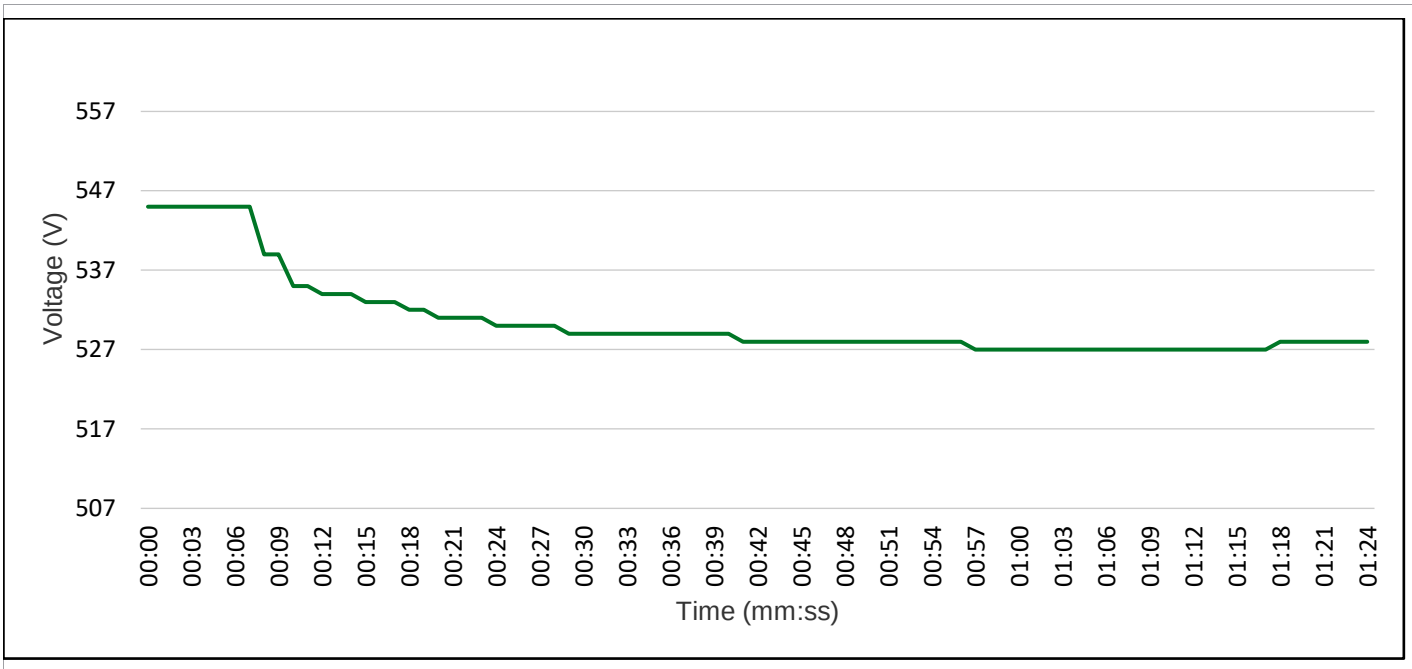
Point of measurement	Status	Comment
Battery Discharge 		

DC Measurement / Battery Discharge

Table Of Measures

Time	Voltage	Time	Voltage	Time	Voltage	Time	Voltage	Time	Voltage	Time	Voltage
00:00	545.00 V	00:01	545.00 V	00:02	545.00 V	00:03	545.00 V	00:04	545.00 V	00:05	545.00 V
00:06	545.00 V	00:07	545.00 V	00:08	539.00 V	00:09	539.00 V	00:10	535.00 V	00:11	535.00 V
00:12	534.00 V	00:13	534.00 V	00:14	534.00 V	00:15	533.00 V	00:16	533.00 V	00:17	533.00 V
00:18	532.00 V	00:19	532.00 V	00:20	531.00 V	00:21	531.00 V	00:22	531.00 V	00:23	531.00 V
00:24	530.00 V	00:25	530.00 V	00:26	530.00 V	00:27	530.00 V	00:28	530.00 V	00:29	529.00 V
00:30	529.00 V	00:31	529.00 V	00:32	529.00 V	00:33	529.00 V	00:34	529.00 V	00:35	529.00 V
00:36	529.00 V	00:37	529.00 V	00:38	529.00 V	00:39	529.00 V	00:40	529.00 V	00:41	528.00 V
00:42	528.00 V	00:43	528.00 V	00:44	528.00 V	00:45	528.00 V	00:46	528.00 V	00:47	528.00 V
00:48	528.00 V	00:49	528.00 V	00:50	528.00 V	00:51	528.00 V	00:52	528.00 V	00:53	528.00 V
00:54	528.00 V	00:55	528.00 V	00:56	528.00 V	00:57	527.00 V	00:58	527.00 V	00:59	527.00 V
01:00	527.00 V	01:01	527.00 V	01:02	527.00 V	01:03	527.00 V	01:04	527.00 V	01:05	527.00 V
01:06	527.00 V	01:07	527.00 V	01:08	527.00 V	01:09	527.00 V	01:10	527.00 V	01:11	527.00 V
01:12	527.00 V	01:13	527.00 V	01:14	527.00 V	01:15	527.00 V	01:16	527.00 V	01:17	527.00 V
01:18	528.00 V	01:19	528.00 V	01:20	528.00 V	01:21	528.00 V	01:22	528.00 V	01:23	528.00 V
01:24	528.00 V										

Battery discharge curve



Discharge run 01:24 (mm:ss)

Voltage before discharge (+/-) 545.00 V

Voltage after discharge (+/-) 528.00 V

Preventive Maintenance

Performed procedure	UPS
Health Status	Conforms
Comment	• REVISION DE ALARMAS POR DISPLAY SI HAY PRESENTES. • CONEXION DEL TUNER Y REVISION DE ALARMAS. • DESCARGA DE INFORME POR TUNER. • LIMPIEZA INTERNA Y EXTERNA DE LA UPS Y GABINETES DE BATERIAS. • LIMPIEZA EXTERNA GABINETE DE BYPASS. • LIMPIEZA EXTERNA GABINETE DE BYPASS MECANICO IO Y INSPECCION INTERNA DE CONEXIONES. • LIMPIEZA DE MODULOS DE POTENCIA. • LIMPIEZA Y RETIRO DE POLVO CON SOPLADOR PARA VENTILADORES Y FILTROS DE POLVO. • REVISION Y AJUSTE CABLEADO DE CONTROL Y VENTILADORES. • REVISION Y CHEQUEO DE MODULOS DE POTENCIA, RECTIFICADOR Y BYPASS ESTATICO. • REVISION Y CHEQUEO EN LA CONFIGURACION DEL SISTEMA CON TUNER. • CHEQUEO FUNCIONAMIENTO TACTIL DEL DISPLAY Y LOGS POR TUNER.. • CHEQUEO Y MEDICION DE TODOS LOS MODULOS DE BATERIAS. • TEST DE BATERIAS. • CHEQUEO DE PARAMETROS DE FUNCIONAMIENTO: TENSION AC-DC, CORRIENTE, POTENCIA Y NIVELES DE CARGA. • REVISION LCM (VIDA UTIL COMPONENTES) Y RESET VIDA UTIL DE BATERIAS. • REVISION Y PRUEBAS DE TRANSFERENCIA EN BYPASS ESTATICO, BATERIAS E INVERSOR. • REVISION Y CHEQUEO EN FUNCIONAMIENTO EN MODO PARALELO. • REVISION DE CARGAS EN MODO PARALELO Y UNITARIO. • INFORME ONSITE.

Preventive Maintenance



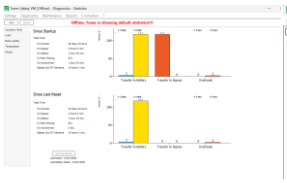
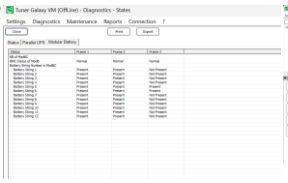
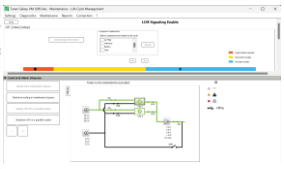
Preventive Maintenance



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Preventive Maintenance



System Check	
Environment Check	
The protection covers are installed.	Ok
Display is working and no alarm present.	Ok
Check the upstream and downstream AC protections (breakers) meet Schneider Electric's specifications and settings	Ok
Verify the upstream and downstream equipment and settings are compatible.	Ok
Auxiliary Cubicles	
Visually check the auxiliary cabinets.	Ok
Dust filter visual check.	Clean
Unit Inspection	
Visual Check	
System status when arriving.	ON
Cabinets exterior appearance (unit and auxiliaries).	Ok
Download a full report and analize the data.	Ok
The customer agrees to the replacement of wearing parts during operation.	Ok
Internal Inspection	
Components temperatures while unit is running.	Ok
Test the units on bypass after requesting customer approval.	Ok
Cabinets interior appearance (unit and auxiliaries).	Ok
Cabinets are free of foreign items (unit and auxiliaries).	Ok
Describe the condition of windings, EMI boards and internal power connections.	Ok
Ventilation visual inspection.	Ok
Condition of boards, subassemblies and their connections.	Ok
Grounding	
Cabinets' grounding straps are present and secured.	Ok
Breakers	
Breakers of the unit are set according to Schneider specifications.	Ok

Power Cables	
Wiring	
AC power and control wires are properly seated and undamaged.	Ok
DC Power Cables wiring are correctly installed and connected.	Ok
AC Normal	
The cable characteristics and protection meet Schneider Electric's requirements.	Ok
AC Bypass	
The cable characteristics and protection meet Schneider Electric's requirements.	Ok
AC Load	
The cable characteristics and protection meet Schneider Electric's requirements.	Ok

Unit Functional Check	
Initial Functional Check	
Settings	
System settings match the current installation	Ok
Options	
NMC(s) configured for Remote Monitoring Service / EcoStruxure Asset Advisor	Ok
Other	
Unit operation without load.	Ok
Verify the Emergency Power Off (EPO) is operational.	Ok
DC protection device is operational.	Ok
Unit operation on Genset without load.	Ok

Security Operations	
System configuration backup done.	Yes
System security settings are up to date.	Yes
Application and event logs reviewed.	Yes
Diagnostics equipment disconnected after update.	Yes
User Access Control is up to date.	Yes
USB devices scanned before use.	Yes

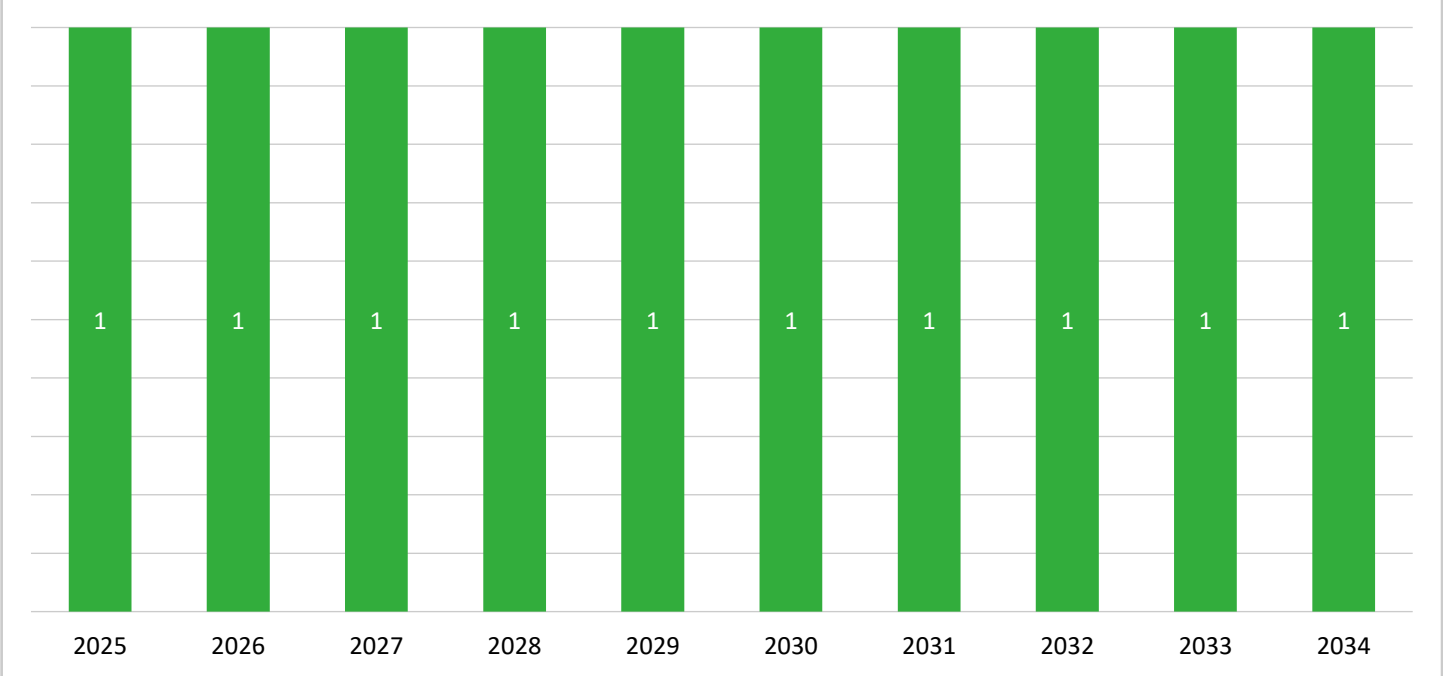
Final Inspection	
Equipment	
Date and time synchronization	Ok
Parts' states and revisions insured proper unit operation.	Ok
Unit firmware upgraded.	No
Verify the unit properly transfers between all operation modes connected to customer load.	Ok
No active alarms in UPS Tuner	Ok
Review the event logs	Yes
Customer Relationship	
Update customer Relationship Management.	Ok
Other	
The area is clean and tidy.	Ok

Obsolescence status

You will find below obsolescence information about the equipment covered in this intervention

Legend	
Commercialized	Commercialization period, Supply of spare parts guaranteed
Spare parts available	End of commercialization. Spare parts available for a limited time
Obsolete	Final cancellation. No spare parts availability
Unknown	Obsolescence dates are unknown

Obsolescence evolution over the next 10 years



Detailed view of the obsolescence status

Obsolescence details per type of UPS equipment

Brand	Range	SubRange	End of Commercialization	Obsolescence	Qty
Commercialized (1)					
Schneider Electric	Galaxy VM		Not defined	Not defined	1