



PREVENTIVE MAINTENANCE DETAILS

Facility Name		Date	30-Mar-17
Room Location	Server Room	Arrival Time	530p
PM Type	Standard	Tech Name	Mike
Service Plan	None	Plan Code	None

(1) Physical Inspection / Status

Primary Systems	Unit	XR Pack	Bypass
INFORMATION			
Description	12kva Symmetra LX		
Model	SYAF16KRMT		
Serial #	ED0431000768		

STATUS REPORT			
Condition, Operation, Etc	Charge 100%, Load 28%, 21min		
Serial #s (IM)	QD0942260299, QD0941360106		
Power Modules	QQ0723170452	ALL OK	
	QQ0633294134	ALL OK	
	QQ0701150083	ALL OK	
	open		
	open		
Batteries			
	ud1321111414	May-16	
	ed1321111279	May-16	
	ed1317108004	May-16	
	open		
On Site Corrections.	None Needed		

INPUT/OUTPUT	
Input Type	Receptacle [X] Nearby Panel [] Disconnect [] Other []
Input Comment	50amp Receptacle/Dryer Type?
Output Type	Rear PDUS [] Direct to Panel [] Other [X]
Outputs to	Large junction box

THERMAL COLLECTION	
Pictures Taken	YES
Comments	Power input seems ok, no problems
	Camera: <input type="text"/>

UPS PLACEMENT		ENVIRONMENT	ENVIRONMENTAL COMMENTS
is access restricted?	YES	Room type:	Clean, no issues
Room temperature:	71	Standard IT room, conditioned	
is the area clear?	YES	air	

ELECTRICIANS REPORT		
Comments on wiring, feeders, etc	Surge Suppressor ?	Not Checked
All ok, no problems		

(2) Data Collection

Primary Systems	Unit		
DISPLAY READINGS			
	L1-N	L2-N	L1/L2
Voltage Input (VIC)	123.7	123.7	213
Voltage Output (VAC)	121.1	121.7	209.5
Amperage	12	10.7	
KVA Output	1.46	1.31	
Load %	28%		
Battery Voltage	137.5		
Battery Runtime	21 min		
Last Successful Self Test	3/24/17 - All ok		
Last Fault Details	3/5/17 - ON UPS for input Power Problem (no outage)		
Other	Fault Tolerance N+2		

NETCARD DOWNLOADS		Model:
Comments on Event Logs	Working perfectly. Clean operation	
Date Correct?	Y	
# of outages (last 90days)	1	
Comments on Data Logs	Steady Load, little variation	
Peak Load	NA	
Other	NA	

(3) Cleaning/Inspections

	Other Cleaning Comments
Power Modules Cleaned	
Fans Replaced	
Other Components Cleaned	

All 3 power modules, checked, cleaned. Have 6 blade fans (newer) type. All ok

Not needed

n/a

Conditional Checks	Yes, Ok	Visually Inspect Spare frame slots for damage
	Yes, Ok	Visually Inspect Rear PDU circuit breakers
	Yes, Ok	Visually Inspect Rear Power Handling Tray
	Yes, Ok	Visually check for any moisture signs
	Yes, Ok	Visually check battery tray sockets for wear or damage
	Yes, Ok	Visually check power module sockets for wear or damage

(4) Batteries

# total trays	3	Comments Inspected each tray, Found batteries in good physical shape and no signs of swelling or corrosion
# detailed inspection	3	
Loose Terminals?	N	
Any Swelling or Corrosion?	N	

(5) Recommend Actions

FOUND DURING INSPECTION

No problems, System working as designed

FORTHCOMING MAINTENANCE

FAN MODULES

not needed

Modern Fans, All ok

BATTERIES

WATCH

Batteries should be good until 2019

MAJOR PM

SCHEDULED

March 2018

SUMMARY

Redundancy

N+2

each 4 triangle set represents a power module

Current system is only using 28% of the power capacity in blue, leaving lots of spare capacity green



If one power module fails (red), you still have enough power and redundancy



Runtime

Good

Current System

21 minutes

batt1
batt2
batt3
empty

main frame

Add 1 Batt

28 minutes

batt1
batt2
batt3
new batt4

main frame

Add XR Chassis

49 minutes

batt1
batt2
batt3
new batt4

main frame

new 5, new 6, new7

XR3 Frame