# **POSINET**

Back Office Data Management Software

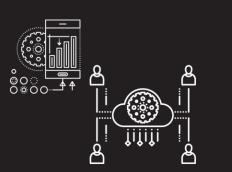
PosiCharge<sup>™</sup> PosiNET is a comprehensive battery management tool for fast charged operations. Built on a unique system architecture that links all fast chargers into a single network, PosiNET automatically captures and analyzes operational data, and then presents actionable fleet usage and warranty compliance reports, thereby empowering operations professionals to manage their fleet effortlessly.

Detailed daily tracking reports, weekly exception reports and lifetime statistical analysis provide easy visibility to battery health across the entire fleet, helping identify potential issues before they become larger problems and simplifying warranty compliance.









### WITH POSINET WEB, FLEET DATA IS ACTIONABLE

- » Email alerts and exception notifications provide instant formation on the health and treatment of the fleet so issues can be corrected before they cause productivity losses. Alerts can be selected by the user to control information volume and flow.
- » Historical and predictive reports provide concrete information for training your operators, optimizing the distribution of vehicles throughout your facility, and planning for future orders or expansions.
- » Real time views of your fleet allow you to immediately identify compliance problems, explore causes, and provide on-the-spot guidance to your operators.

#### WITH POSINET WEB, FLEET DATA IS AUTOMATIC

- » Charger and battery data are automatically downloaded from the charger and uploaded to the PosiNET Data Center for processing. No manual download procedures are required.
- » Twenty-five pre-defined reports are available without even touching a button. Scheduled weekly, monthly or annual reports on fleet activities are sent directly to any Internet-accessible email account.
- » User- level filtering provides only the most useful reports based on user roles and responsibilities.

#### WITH POSINET WEB, FLEET DATA IS ACCESSIBLE

- » Web-based system architecture allows access to operations information from any place in the world.
- » Simple, intuitive controls allow the user to rapidly navigate to the information they need.
- » Optional third-party access to fleet data can dramatically improve service response time. Battery and charger service personnel can review data in order to identify issues, remotely diagnose, and provide fast solutions, minimizing downtime and maximizing productivity.

All specifications are subject to change. image shown is a representation; production model may vary slightly in appearance



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## **POSINET®** BACK-OFFICE DATA MANAGEMENT SOFTWARE

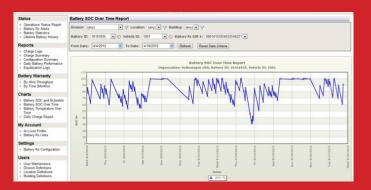
Full suite of battery and charger data analyis tool

- Extensive reporting capabilities
- Ability to download fleet info from the internet.
- Intuitive user interface
- Delivers weekly exception reports and lifetime battery historical reports
- Real time alerts for early issue detection
- Prevents long term battery damage before it is too late
- Key email alerts: Battery Low SOC | Battery Missed EQ | High Battery Temperature | Battery Low Water

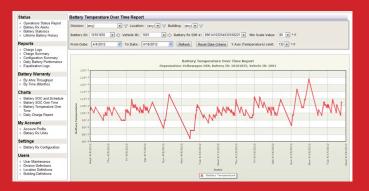
*Figure 1.* OPERATIONS STATUS REPORT – Provides a simple summary of the battery performance and maintenance issues for the past week.

Operations Status Report Battery Rx Alerts Battery Statistics	🔀 Export as Excel 🕼 Export as CSy 🗏 Grid Column Chooser 🗭 Ignore In Service Date and Invalid Date Filters													
Battery Statistics Lifetime Battery History	Organization: Kraft • Y Division: Brampton • Y Location: Brampton-Hopewell • Y Building: (any) • Y													
Reports	Weekd	ly Start/End:	Tuesday to I	Monday	- Dat	e of Week:	10/27/2013	Refn	sh 🛛	Send Report	On Tuesday	-		
Battery History* Battery History Logs* Charge Logs Charge Summary Configuration Logs* Configuration Summary Daily Battery Performance Equalization Logs	Search Fields: (none) • Refresh Reset Search Citeria													
	Dote Range: 10/22/2013 up to 10/28/2013													
	First   I	Battery ID	Vehicle ID		EQ Complete	SOC < 20%	Total Plugins	Time (Hours		Ahrs	Max Temp Exceeded	Temp	Days High Temp Evts	
Battery Warranty	1	00001214	00001214	1.000			41	20.57	4,822	4,572		102.2		0
By Ahrs Throughput By Time (Months)	2			1,000		-	38			5,599		122.0		2
	3	00003098 0GAP0239	00000313	1.000			33		1.628	5.271		107.6		0
Charts	5	0GAP0316	00001211	1,000			23		3,497	3,445		91.4		0
Battery SOC and Schedule Battery SOC Over Time Battery Temperature Over Time Daily Charge Report	6	0GAP0318	00001210	1,000	•	•	40	47.43	6,219	4,602	•	120.2		1
	7	0GAP0319	00001222	1.000	•		37	28.18	5,626	5,126	•	102.2		0
	8	0GAP0320	00001212	1,000	•		20	22.70	4,440	4,208	•	102.2		0
	9	0GAP0321	00001203	1.000	•	•	35	29.28	5,551	5,039	•	111.2		0
	10	0GAP0322	00001221	1.000		•	40	36.90	6.339	5,600	•	116.6		1
My Account	11	0GAP0323	00001209	1,000			41	30.32	7,041	6,894	•	109.4		0
o Account Profile o Battery Rx Units BMD Test Page* Firmware Update Control Pane# E-Meter Log Report*	12	OGAP0324	00001201	1.000	•	•	37	30.15	5,741	5.668	•	104.0		0
	13	0GAP0325	00001204	1,000	•	•	38	24.68	5,705	5,322	•	102.2		0
	14	0GAP0326	00001223	1.000	•	•	44	34.92	6,224	5.191	•	111.2		0
	15	0GAP0327	00001207	1,000	•	•	43	28.15	6,466	6,205	•	111.2		0
	16	0GAP0336	00001206	1.000	•		3	8.50	1,404	716	•	84.2		0

*Figure 2.* BATTERY SOC CHART – Provides ability to review battery SOC in detail for any time period in the history of the battery.



*Figure 3.* BATTERY TEMPERATURE CHART – Provides ability to review battery temperature in detail for any time period in the history of the battery.



*Figure 4*. DAILY CHARGE REPORT – Provides ability to review daily battery charge Ahs and Plug In compliance.



*Figure 5.* LIFETIME BATTERY STATISTICS – Complete history of the battery, can be used to confirm warranty compliance.

Operations Status Report Battery Rx Alerts Battery Statistics Uretime Battery History	Export to FDF										
	Organization: Mondelez • 🗸 Division: Brampton • 🖓 Location: Hopewell • 🖓										
Reports			Vehicle ID: 00000507								
Battery History" Battery History Logs" Charge Logs Charge Summary Configuration Loga" Configuration Summary Daily Battery Performance Equalization Logs	Search Fields: (none		•	Refresh. Reset Search Criteria							
	Battery	_		Charge			Equalization				
	Battery ID	0GGR006	9	Total Charge Events 5,357			Total Equalization hours	744			
	Vehicle ID				harged	552,969 Ahrs	Total Complete Equalization events	81			
e By Ahrs Throughput	BATTERY MFG Serial (not entere Number		red)	Cumulative Kilowatt-hours Charged		31,976 KWhrs	Days since last Complete Equalization	1			
o By Time (Months)	Firmware Revision 00.00.09.15			Total SOC events below 20% 621			Max Rec Days between Equalizations	6 days			
Charts	Initialization Date 2/4/2013 2:26 PM						Max Rec Amp-hours between Equalizations	7.306 Abrs			
Battery SOC and Schedule Battery SOC Over Time Battery Temperature Over Time Daily Charge Report	Days in Operation	632									
	Data as Of	ata as Of 4/6/2015 11:59 PM					Last Complete EQ Date	4/5/2015 5:30 AM			
	Voltage			Discharge		10	Run Time / Key Time				
My Account	Number Low Voltage I	Events	373	Cumulative Discharge Ar	np-hours	520,211 Ahrs	Cumulative Run Time	5,448 hr			
Account Profile Battery RX Units Battery RX Test Page* Firmware Update Control Panet* E-Meter Log Report* Firmware History Report* SMS Events Report*	Number High Voltage Events		0	Cumulative Discharge KWhrs		24,669 KWhrs	Cumulative Key-On Time	6,275 hr			
	Min Recorded Voltage		44.9 V				Cumulative Key-Off Time	8,856 hr			
	Max Recorded Voltage		63.9 V				Cumulative Charge Time	3,803 hr			
	Nominal Battery Volta	ge	48 V				Cumulative Idle Time	5,917 hr			
	Temperature			Battery Life / Capacity	/		Water				
Settings	Days High Temperatu	re Events	5	Remaining Battery Life (based on warranty)		22 month(s) Number of Days with Low		Water 422			

*Figure 6.* BATTERY WARRANTY – Ah Throughput comparison of Battery Fleet.





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