

Form 273-2 Doc 2011800 rev 2.02 Modified by Rasto Laco ©

Prepared by: Marraks	System Part no.: ETT20434.004	Smartpack part no.: 242100.110	SW Rev: 3.10	Doc no.: 2193878	Doc rev: 1
Approved by: IFS	CTO: <input type="checkbox"/>	Mains input: 3PH 400Vac	System type: <input type="radio"/> 60V <input checked="" type="radio"/> 48V <input type="radio"/> 24V		

Note! If any customer changes are made in this document, they will overwrite the default values in the Smartpack.

Para	Site Info	DEFAULT VALUE	CUSTOMER DEFINE TEXT			
1.1	Company	<Blank>				
1.2	Model	Flatpack 2 Power System				
Para	System Voltage Levels	DEFAULT VALUE	Value	CUSTOMER DEFINE		
2.1	Nominal Voltage (float)	53,52V				
2.2	Boost Voltage	54,50V				
2.3	Battery Contactor LVBD	Enabled				
2.4	Battery Disconnect Voltage - LVBD	43,0V				
2.5	Battery Reconnect Voltage - LVBD	47,0V				
2.6	LVBD Temperature Dependent	Disabled				
2.7	Load Contactor LVLD 1	Disabled				
2.8	Load Disconnect Voltage - LVLD 1	44,0V				
2.9	Load Reconnect Voltage - LVLD 1	48,0V				
2.10	LVLD1 Disconnect Delay Timer	Disabled				
2.11	Load Contactor LVLD 2	Not configured				
2.12	Load Disconnect Voltage - LVLD 2	Not configured				
2.13	Load Reconnect Voltage - LVLD 2	Not configured				
2.14	LVLD2 Disconnect Delay Timer	Not configured				
2.15	Rectifier Current limit	Disabled ( 1000Amp )				
2.16	Rectifier standby voltage	1,85V/cell 44,40V				
2.17	Battery Charge current limit	Disabled				
2.18	Battery Charge current limit (Mains)	100Amp				
2.19	Battery Charge current limit (Generator)	100Amp				
2.20	Battery test end voltage	1,9V/cell (45,60V)				
Para	Programmable Inputs	DEFAULT VALUE	New Description	CUSTOMER DEFINE		
3.1	PROG INPUT 1.1	Disabled	SPD Alarm	Enabled	Normally closed	SPD Alarm
3.2	PROG INPUT 81.1	Disabled	Door Alarm	Enabled	Normally closed	Door Alarm
3.3	PROG INPUT 81.2	Disabled	Aircon Alarm	Enabled	Normally closed	Enviroment
3.4	PROG INPUT 81.5	Disabled	Smoke Alarm	Enabled	Normally closed	Enviroment
Para	Set Alarm Levels	DEFAULT VALUE	ALARM GROUP NAME	Value	CUSTOMER DEFINE	
			DEFAULT		Alarm Group	Funtion
4.1	Mains Low Alarm	Enabled				
4.2	Mains Low Major alarm	2 Phase	Mains Alarm			
4.3	Mains Low Minor alarm	1 Phase	Mains Alarm			
4.4	MainsVolt 1 Alarm	Enabled				
4.5	MainsVolt 1 Major High	280V	Mains Alarm			
4.6	MainsVolt 1 Minor High	260V	Mains Alarm			
4.7	MainsVolt 1 Minor Low	100V	Mains Alarm			
4.8	MainsVolt 1 Major Low	80V	Mains Alarm			
4.9	MainsVolt 2 Alarm	Enabled				
4.10	MainsVolt 2 Major High	280V	Mains Alarm			
4.11	MainsVolt 2 Minor High	260V	Mains Alarm			
4.12	MainsVolt 2 Minor Low	100V	Mains Alarm			
4.13	MainsVolt 2 Major Low	80V	Mains Alarm			
4.14	MainsVolt 3 Alarm	Enabled				
4.15	MainsVolt 3 Major High	280V	Mains Alarm			
4.16	MainsVolt 3 Minor High	260V	Mains Alarm			
4.17	MainsVolt 3 Minor Low	100V	Mains Alarm			
4.18	MainsVolt 3 Major Low	80V	Mains Alarm			
4.19	Rectifier Current Alarm	Disabled				
4.20	Rectifier Current Major alarm	5000Amp	Major alarm			
4.21	Rectifier Current Minor alarm	4000Amp	Minor alarm			
4.22	Rectifier Error Alarm	Enabled				
4.23	Rectifier Error Major alarm	2 Units	Rectifier Alarm			
4.24	Rectifier Error Minor alarm	1 Unit	Rectifier Alarm			
4.25	Rectifier CommError Alarm	Enabled				
4.26	Rectifier CommError Major alarm	2 Units	Rectifier Alarm			
4.27	Rectifier CommError Minor alarm	1 Unit	Rectifier Alarm			
4.28	Rectifier Capacity Alarm	Disabled				
4.29	Rectifier Capacity Major alarm	95%	Major alarm			
4.30	Rectifier Capacity Minor alarm	90%	Minor alarm			
4.31	Rectifier CurrentShare Alarm	Disabled				
4.32	Rectifier CurrentShare Major al	10%	Major alarm			
4.33	Rectifier CurrentShare Minor al	5%	Minor alarm			
4.34	Load Current Alarm	Disabled				
4.35	Load Current Major alarm	30000Amp	Major alarm			
4.36	Load Current Minor alarm	20000Amp	Minor alarm			
4.37	LoadFuse 1 Major Alarm	Enabled	Fuse alarm			
4.38	BatteryVoltage Alarm	Enabled				
4.39	BatteryVoltage Major High	57,0V	Battery High			
4.40	BatteryVoltage Minor High	56,8V	Minor Alarm			
4.41	BatteryVoltage Minor Low	47,0V	Minor Alarm			
4.42	BatteryVoltage Major Low	46,3V	Battery Low			
4.43	BatteryCurrent Alarm	Disabled				
4.44	BatteryCurrent Major High	500Amp	Major Alarm			
4.45	BatteryCurrent Minor High	300Amp	Minor Alarm			
4.46	BatteryCurrent Minor Low	-300Amp	Minor Alarm			
4.47	BatteryCurrent Major Low	-500Amp	Major Alarm			
4.48	Battery Tempsense 1.1	Enabled				
4.49	Battery Tempsense 1.2	Disabled				
4.50	BatteryTemp Alarm	Disabled				
4.51	BatteryTemp Major High	40°C	Major Alarm			
4.52	BatteryTemp Minor High	30°C	Minor Alarm			
4.53	BatteryTemp Minor Low	-5°C	Minor Alarm			
4.54	BatteryTemp Major Low	-10°C	Major Alarm			
4.55	BatteryLifeTime Alarm	Disabled				
4.56	BatteryLifeTime Major Alarm	100 days	Major Alarm			
4.57	BatteryLifeTime Minor Alarm	100 days	Minor Alarm			
4.58	BatteryQuality Alarm	Enabled				
4.59	BatteryQuality Major Alarm	75%	Major Alarm			
4.60	BatteryQuality Minor Alarm	80%	Minor Alarm			

Para	Set Alarm Levels	DEFAULT VALUE	ALARM GROUP NAME DEFAULT		Value	CUSTOMER DEFINE Alarm Group			Funtion	
4.61	BatteryTotCap Alarm	Disabled								
4.62	BatteryTotCap Major Alarm	75%	Major Alarm							
4.63	BatteryTotCap Minor Alarm	80%	Minor Alarm							
4.64	BatteryRemCap Alarm	Disabled								
4.65	BatteryRemCap Major Alarm	20%	Major Alarm							
4.66	BatteryRemCap Minor Alarm	25%	Minor Alarm							
4.67	Symmetry Measurement	Disabled								
4.68	Measure Type	Middle (24V)								
4.69	Mode	Continuous								
4.70	Discharge Delay (Min)	0								
4.71	Symmetry tolerance Major alarm	1.5V	Major alarm							
4.72	Symmetry tolerance Minor ailarms	1,0V	Minor alarm							
4.73	BatteryFuse 1.1 Major Alarm	Enabled	Fuse alarm							
4.74	BatteryFuse 1.2 Major Alarm	Disabled	Fuse alarm							
4.75	Battery test (ongoing)		None Selected							
4.76	Boost (ongoing)		None Selected							
Para	Alarm Output Relay configuration									
		Alarm output 1	Alarm output 2	Battery contactor	Load contactor	Alarm output 3	Alarm output 4	Alarm output 5	Alarm output6	
5.1	Default Relay Config:	Normally activated	Normally activated	Latched contactor	Latched contactor	Normally activated	Normally activated	Normally activated	Normally activated	
5.2	Customer Relay Config:									
Para	Alarm Groups		DEFAULT VALUE		CUSTOMER DEFINE New Description		Smartpack relays Relay		I/O Monitor relays Relay	
6.1	Major Alarm		Relay 1							
6.2	Minor Alarm		Relay 1							
6.3	Mains Alarm		Relay 1 & 2							
6.4	Fuse Alarm		Relay 1 & 3							
6.5	Battery High		Relay 1 & 4							
6.6	Battery Low		Relay 1 & 5							
6.7	Rectifier Alarm		Relay 1 & 6							
6.8	AlarmGroup 8		<None>		SPD Alarm		Relay 1			
6.9	AlarmGroup 9		<None>							
6.10	AlarmGroup 10		<None>		Door Alarm				Relay 2	
6.11	AlarmGroup 11		<None>		Enviroment				Relay 3	
6.12	AlarmGroup 12		<None>							
6.13	AlarmGroup 13		<None>							
6.14	AlarmGroup 14		<None>							
6.15	AlarmGroup 15		<None>							
6.16	AlarmGroup 16		<None>							
6.17	AlarmGroup 17		<None>							
6.18	AlarmGroup 18 (Alarms Blocked)		<None>							
6.19	LVBD		Battery Contactor							
6.20	LVLD 1		Load Contactor							
6.21	<Blank> (Dedicated to LVLD2)		<None>							
Para	Battery configuration		DEFAULT VALUE		Value		CUSTOMER DEFINE		Function	
7.1	Battery type Description		Eltek standard							
7.2	Capacity (Ah pr.string)		100Ah							
7.3	Number of Batt Banks (No of Smartpacks)		1							
7.4	Number of Battery Strings (#)		1		2					
7.5	Temperatur Compensation		Disabled							
7.6	Reference voltage ( V/cell )		2,23V/cell		See para 2.1					
7.7	Reference temperature (°C )		20°C						Enabled	
7.8	Temperature slope ( mV/°C/cell )		3,00 mV/°C/cell							
7.9	Min compensation voltage ( V/cell )		2,10V/cell							
7.10	Max compensation voltage ( V/cell )		2,35V/cell							
7.11	Battery Test Type		Normal test							
7.12	End voltage (V/cell)		End voltage 1.9(V/cell)							
7.13	Test duration (min)		Disabled (720min)							
7.14	Guard time ( hours )		Disabled (12h)							
7.15	Max_Discharge (Ah)		Disabled (100Ah)							
7.16	Automatic test		Disabled							
7.17	Interval test		Disabled							
7.18	Next start date		19.06.2007							
7.19	Next start time		12:00							
7.20	Interval period (days)		180days							
7.21	Manual boost Max duration (min)		120min							
7.22	Interval boost		Disabled							
7.23	Max duration (min)		120min							
7.24	Next start date		19.06.2007							
7.25	Next start time		12:00							
7.26	Interval period (days)		180days							
7.27	Automatic boost		Disabled							
7.28	Max duration (min)		120min							
7.29	Charge factor ( % )		100%							
7.30	Discharge threshold (Ah)		1Ah							
Para	Battery table configuration		DEFAULT VALUE		CUSTOMER DEFINE VALUE					
8.1	Battery Table High end volt (ref 1)		1,90 V/cell							
8.2	Battery Table Low end volt (ref 2)		1,75V/cell							
Insert Battery Table if available (Amp)										
8.3	Min									
8.4	Ref 1									
8.5	Ref 2									
Para	System configuration		DEFAULT VALUE		CUSTOMER DEFINE VALUE					
9.1	Temperature scale		Celsius							
9.2	System polarity		Positive							
9.3	Critical premises		Mains Minor Low							
9.4	Current shunt 1 Shunt type (mV)		60mV							
9.5	Current shunt 1 Shunt size (A)		200A		200A					
9.6	Current shunt 2 Shunt type (mV)		60mV							
9.7	Current shunt 2 Shunt size (A)		200A							
9.8	Number of mains phases		3 phase							
CUSTOMER DEFINE OTHER SPECIFICATIONS										
10.1	System includes Hybrid unit									
10.2										
10.3	Set Cooling set point B1 25°C									