

شماره مدرک: 2R-FO-298	فرم صورت جلسه بازرسی (Minutes Of Meeting)	
شماره ویرایش: ۰۲		
تاریخ صدور/تجدید نظر: ۱۴۰۲/۱۰/۲۷		
صفحه: ۱ از ۱		

RFI (Request For Inspection): CT-PL-21-072-1R-001		درخواست بازرسی:
Contractor: PPI	پیمانکار:	Project:
Supplier: (جهاد دانش)	تامین کننده:	Employer:
Date: ۱۴۰۳/۱۰/۱۷ و ۱۶	زمان برگزاری:	Location: کارخانه شرکت جهاد دانش
Subject: AC-20008 UPS های		موضوع: اتمام بازرسی Routintest و مربوط
Material Description: AC-20007 ACUPS-20007 A/B و AC-UPS-20008 A/B		نام کالا/تجهیز:
Participants:	حاضران جلسه: آقایان محمد علی مدری (PEDEC) و حامد محمدی حواسی (2R) آقای (PPI) آقای (JDR) آقای (JDR)	

Description Of Signature:	شرح بازرسی:
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بر اساس درخواست بازرسی تاریخهای ۱۴۰۳، ۱۰، ۱۶ و ۱۴۰۳، ۱۰، ۱۷ به شماره درخواست ۰۰۹-JDR-072-AFI در کارخانه شرکت جهاد دانش طی پایان اتمام آزمونهای Routine UPS های ACUPS-BD-20007 (A/B) بر اساس برگه ITP 4 شماره ۰۰۱-CT-PL-21-072-1R-001 (V02) ACUPS-BD-20008 (A/B) انجام گردید نتایج زیر مقرر شده است.

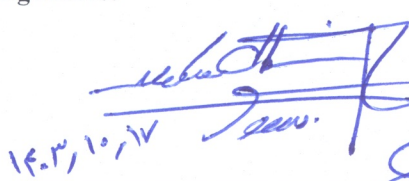
۱- براساس بند ۳ برگه ITP مقرر شده گروهی های مربوط به ترانسورهای MCCB و کاسه های استانه شده در UPS ها تاریخ ۱۴۰۳، ۱۰، ۲۰ پنجشنبه در وقت بازرسی ۰۵:۳۰ 2R رسانده شود.

۲- براساس بند ۴ برگه ITP: در ریسورتهای داخلی کارخانه در خصوص سافت UPS های فوق در وقت بازرسی ۰۹:۰۰ (Capacitor; نابوها و ...)

۳- براساس بند ۵ برگه ITP بازرسی ظاهری و گسیل برگه Port صورت پذیرفت که نکات اصلاحی با ثبت در برگه اصلاح شود.

۴- در خصوص بند ۵.۲ برگه ITP تست های Routine نابوها اتمام پذیرفت که نتایج تست و آزمونهای پیوسته در این صورت طرح می باشد.

۴-۱: تست های Hipot و Insulation نابوها اتمام گردید که نتایج آزمونهای بدوی باس های AC و DL و ورودی و خروجی ها قابل قبول بوده و عملیات ناشی از تستی در آن با Flashover (ACC) Resistance

Participants Signature:	امضا حاضرین:
 ۱۴۰۳، ۱۰، ۱۷	 حامد محمدی حواسی

FORM CODE : MMFO1202	BATTERY CHARGER TEST SHEET ACCORDING TO IEC62040-3 & IEC 146 STANDARDS	
REV. : 0		
DATE : 1402/11/11		

PROJECT NAME : South Azadegan Oil Field Development Project Phase I		CALIBRATION CODE :	
INPUT VOLTAGE : 400±10%	BATTERY : 2x100%	x (278 SBM 526)	TAG NO. : BD-20007
OUTPUT VOLTAGE : 360 VDC	OUTPUT CURRENT : 310	300 ADC	JOB NO. : 401807
INPUT FREQUENCY : 50 HZ	CHARGER NO. : B		CONTRACTOR : Petropars Iran

All the default that do n't specify their's telorance values, with ± 1% tolerance are acceptable

ROUTINE TESTS :	DEFAULT	VALUE	RESULT	REMARK
2KV @ 1 min , BETWEEN AC & DC TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
2KV @ 1 min , BETWEEN AC & EARTH TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
100MΩ > , @ 1 min , BETWEEN AC & DC TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
100MΩ > , @ 1 min , BETWEEN AC & EARTH TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
DEEP DISCHARGE VOLTAGE	278		☒ OK ☐ NOT OK ☐ N.A	
LOW DC VOLTAGE	305.8		☒ OK ☐ NOT OK ☐ N.A	
FREE RUNNING MODE VOLTAGE	...		☒ OK ☐ NOT OK ☐ N.A	
FLOAT MODE VOLTAGE	389.2		☒ OK ☐ NOT OK ☐ N.A	
QUICK (EQUALIZE) MODE VOLTAGE	417		☒ OK ☐ NOT OK ☐ N.A	
INITIAL (COMMISSIONING) MODE VOLTAGE	458.7		☒ OK ☐ NOT OK ☐ N.A	
HIGH DC VOLTAGE	472.6		☒ OK ☐ NOT OK ☐ N.A	
FLOAT TO QUICK MODE VOLTAGE	...		☐ OK ☐ NOT OK ☐ N.A	
INITIAL TO FLOAT MODE VOLTAGE	...		☒ OK ☐ NOT OK ☐ N.A	
QUICK TO FLOAT MODE BY TIMER (HOURS)	8		☒ OK ☐ NOT OK ☐ N.A	
FLOAT TO QUICK MODE BY AC FAULT TIMER (HOURS)	0.5		☒ OK ☐ NOT OK ☐ N.A	
INITIAL TO FLOAT MODE BY TIMER (HOURS)	16		☒ OK ☐ NOT OK ☐ N.A	
CHARGER CURRENT LIMIT(ADC)	300		☒ OK ☐ NOT OK ☐ N.A	
BATTERY CURRENT LIMIT(ADC)	105.2		☒ OK ☐ NOT OK ☐ N.A	
HIGH TEMPERATURE	T ≥ 90 °C		☒ OK ☐ NOT OK ☐ N.A	
SOFT START	...		☐ OK ☐ NOT OK ☐ N.A	
CHARGE FAIL	347.5		☒ OK ☐ NOT OK ☐ N.A	
AC INPUT FAULT FOR V < (V _{IN} - 10%)	360		☒ OK ☐ NOT OK ☐ N.A	
AC INPUT FAULT FOR V > (V _{IN} + 10%)	440		☒ OK ☐ NOT OK ☐ N.A	
ALARM & ALARM RESET	...		☐ OK ☐ NOT OK ☐ N.A	
REMOTE & LIGHTING	...		☐ OK ☐ NOT OK ☐ N.A	
METER & LCD	...		☐ OK ☐ NOT OK ☐ N.A	
CONTACTOR & RELAYS	...		☐ OK ☐ NOT OK ☐ N.A	
FAN & THERMOSTAT	T ≥ 70 °C		☒ OK ☐ NOT OK ☐ N.A	
MCBs & MCCBs	...		☒ OK ☐ NOT OK ☐ N.A	400 A
FUSES & TERMINALS	...		☐ OK ☐ NOT OK ☒ N.A	
HEATER & THERMOSTAT	...		☐ OK ☐ NOT OK ☒ N.A	
DC EARTH FAULT (+) & (-)	...		☐ OK ☐ NOT OK ☐ N.A	
OUT. VOLTAGE RIPPLE AT FULL LOAD WITHOUT BATT. (%)	± 2 %		☒ OK ☐ NOT OK ☐ N.A	
AUDIBLE NOISE TEST(dB)	≤ 65		☒ OK ☐ NOT OK ☐ N.A	75 DB

EFFICIENCY & REGULATION TABLE OF CHARGER :

STAGE	V _{1 IN}	I _{1 IN}	P _{1 IN}	V _{2 IN}	I _{2 IN}	P _{2 IN}	V _{3 IN}	I _{3 IN}	P _{3 IN}	P _T	V _{DC}	I _{DC}	P _{OUT}	η %
0.25In														
0.5In														
0.75In														
In	220	241	42	221	249	43.70	220	240	42.7		389	310	120	

EFFICIENCY & REGULATION TABLE OF DC/DC CONVERTER/DROPPER DIODES :

STAGE	V _{IN}	I _{IN}	P _{IN}	V _{OUT}	I _{OUT}	P _{OUT}	η %
0.25In							
0.5In							
0.75In							
In							

Abbreviation : N.A: Not Applicable T: Temperature	In: nominal current
TESTED BY :	Q.C BY :
DATE :	DATE :
SIGN :	SIGN :



Handwritten signatures and notes:

10.4.10.17 2000

Ripple
2Vont
0.5%

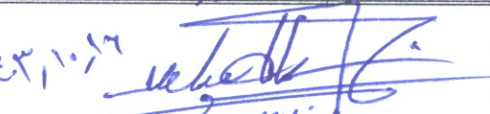
کابل زمین نامبر - 360VDC / 300A DC

ملک ها و کابل ترانس ان لست شود

شماره 125 در 10 (تست است) - 85KVA / 110V AC

ارومات مثل گرانس بودن

در سطح آ و کابل ها - 360VDC

FORM CODE : MMFO1103		INVERTER-STABILIZER TEST SHEET				JDEVS											
REV : 0		ACCORDING TO IEC62040-3 & IEC 146 STANDARDS															
DATE : 1402/11/11		PROJECT NAME : South Azadegan Oil Field Development Project Phase 1				CALIBRATION CODE :											
INV. INPUT VOLTAGE :	360 VDC	BYPASS IN VOLTAGE :	0	400±10%	VAC	TAG NO. :	BD-20007										
AC OUTPUT VOLTAGE :	110 VAC	AC OUTPUT CURRENT :	772.7	772.7	AAC	JOB NO. :	401,807										
OUTPUT FREQUENCY :	50 HZ	INVERTER NO. :	A	620A	CONTRACTOR :	Petropars Iran											
All the default that do n't specify their's telorance values, with ± 1% tolerance are acceptable																	
ROUTINE TESTS :		DEFAULT	VALUE	RESULT	REMARK												
2KV @ 1 min. BETWEEN AC & DC TERMINALS		1 min		☒ OK ☐ NOT OK ☐ N.A													
2KV @ 1 min. BETWEEN AC & EARTH TERMINALS		1 min		☒ OK ☐ NOT OK ☐ N.A													
100MΩ > . @ 1 min. BETWEEN AC & DC TERMINALS		1 min		☒ OK ☐ NOT OK ☐ N.A													
100MΩ > . @ 1 min. BETWEEN AC & EARTH TERMINALS		1 min		☒ OK ☐ NOT OK ☐ N.A													
OUTPUT VOLTAGE AT NO LOAD		110		☒ OK ☐ NOT OK ☐ N.A													
OUTPUT FREQUENCY AT NO LOAD		50 HZ		☒ OK ☐ NOT OK ☐ N.A													
LOW DC VOLTAGE		305.8		☒ OK ☐ NOT OK ☐ N.A													
HIGH DC VOLTAGE		458.7		☒ OK ☐ NOT OK ☐ N.A													
HIGH TEMPERATURE		T ≥ 90 °C		☒ OK ☐ NOT OK ☐ N.A													
INVERTER FAULT ALARM		...		☒ OK ☐ NOT OK ☐ N.A													
SYNC. AT In		...		☒ OK ☐ NOT OK ☐ N.A													
INVERTER TO BYPASS TRANSFER		...		☒ OK ☐ NOT OK ☐ N.A													
BYPASS TO INVERTER TRANSFER		...		☒ OK ☐ NOT OK ☐ N.A													
MANUAL TRANSFER		...		☒ OK ☐ NOT OK ☐ N.A													
ALARM & ALARM RESET		...		☒ OK ☐ NOT OK ☐ N.A													
REMOTE & LIGHTING		...		☒ OK ☐ NOT OK ☐ N.A													
METER & LCD		...		☒ OK ☐ NOT OK ☐ N.A													
CONTACTOR & RELAYS		...		☒ OK ☐ NOT OK ☐ N.A													
FAN & THERMOSTAT		T ≥ 70 °C		☒ OK ☐ NOT OK ☐ N.A													
MCBs & MCCBs		...		☒ OK ☐ NOT OK ☐ N.A													
FUSES & TERMINALS		...		☒ OK ☐ NOT OK ☐ N.A													
HEATER & THERMOSTAT		...		☒ OK ☐ NOT OK ☐ N.A													
AC EARTH FAULT		...		☒ OK ☐ NOT OK ☐ N.A													
AUDIBLE NOISE TEST(dB)		≤ 65		☒ OK ☐ NOT OK ☐ N.A	70 DB accepted												
EFFICIENCY & REGULATION TABLE OF INVERTER :																	
STAGE	V _{IN}	I _{IN}	P _{IN}	V _{OUT}	I _{OUT}	P _{OUT}	V _{2 OUT}	I _{2 OUT}	P _{2 OUT}	V _{3 OUT}	I _{3 OUT}	P _{3 OUT}	P _T	COS φ	THD %	η %	
0.25In	389	54	19.31	110	160	17.66	-	-	-	-	-	-	-	0.8	1.7		
0.5In	389	100	37.60	110	307	34	-	-	-	-	-	-	-	0.8	1.7		
0.75In	389	152	57.23	111	484	54	-	-	-	-	-	-	-	0.8	1.7		
In	389	191	73.70	111	617	69	-	-	-	-	-	-	-	0.8	1.7	94%	
STABILIZER HIGH LIMIT VOLTAGE						+10%											
STABILIZER LOW LIMIT VOLTAGE						-10%											
STABILIZER NO LOAD VOLTAGE						±1%											
EFFICIENCY & REGULATION TABLE OF STABILIZER :																	
STAGE	V _{IN}	I _{IN}	P _{IN}	V _{IN}	I _{IN}	P _{IN}	V _{OUT}	I _{OUT}	P _{OUT}	V _{OUT}	I _{OUT}	P _{OUT}	P _T	COS φ	η %		
0.25In	222	32	4.93	223	58	12.96	223	25	3.65	110	169	18.65	-	1			
0.5In	222	62	9.85	223	114	25.39	224	53	7.27	109	338	36.99	-	1			
0.75In	222	89	18	222	167	37	224	80	11.10	110	488	53.80	-	1			
In	222	187	40.22	222	223	49	225	102	14.37	110	634	69.90	-	73.59	95%		
Abbreviation: N.A: Not Applicable T: Temperature In: nominal current																	
TESTED BY : 								Q.C BY : 									
DATE :								DATE : 1403/10/16									
SIGN :								SIGN :									

Nameplate { 360VDC / 300A DC
85KVA / 110V AC
Inverter A

stabilizer (موتور آل هم لست شود)

shaft coupling
نی موتور و شفت سری است

م سوار عایش
Hipot
Megeer

مرد موبایل 03-2797
code new

م سوار عایش
Nors Level آل هم لست شود

مرد موبایل 03-2797
code new

FORM CODE: MMF01202	BATTERY CHARGER TEST SHEET ACCORDING TO IEC62040-3 & IEC 146 STANDARDS	
REV.: 0		
DATE: 1402/11/11		

PROJECT NAME: South Azadegan Oil Field Development Project Phase I		CALIBRATION CODE:
INPUT VOLTAGE: 400±10%	BATTERY: 2x100% x (278 SBM 526)	TAG NO.: BD-20007
OUTPUT VOLTAGE: 360 VDC	OUTPUT CURRENT: 300 ADC	JOB NO.: 401807
INPUT FREQUENCY: 50 HZ	CHARGER NO.: A	CONTRACTOR: Petropars Iran

All the default that do n't specify their's telorance values, with ± 1% tolerance are acceptable

ROUTINE TESTS:	DEFAULT	VALUE	RESULT	REMARK
2KV @ 1 min., BETWEEN AC & DC TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
2KV @ 1 min., BETWEEN AC & EARTH TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
100MΩ > . @ 1 min., BETWEEN AC & DC TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
100MΩ > . @ 1 min., BETWEEN AC & EARTH TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
DEEP DISCHARGE VOLTAGE	278		☒ OK ☐ NOT OK ☐ N.A	
LOW DC VOLTAGE	305.8		☒ OK ☐ NOT OK ☐ N.A	
FREE RUNNING MODE VOLTAGE	...		☒ OK ☐ NOT OK ☐ N.A	
FLOAT MODE VOLTAGE	389.2		☒ OK ☐ NOT OK ☐ N.A	
QUICK (EQUALIZE) MODE VOLTAGE	417		☒ OK ☐ NOT OK ☐ N.A	
INITIAL (COMMISSIONING) MODE VOLTAGE	458.7		☒ OK ☐ NOT OK ☐ N.A	
HIGH DC VOLTAGE	472.6		☒ OK ☐ NOT OK ☐ N.A	
FLOAT TO QUICK MODE VOLTAGE	1 min		☒ OK ☐ NOT OK ☐ N.A	
INITIAL TO FLOAT MODE VOLTAGE	1 min		☒ OK ☐ NOT OK ☐ N.A	
QUICK TO FLOAT MODE BY TIMER (HOURS)	8		☒ OK ☐ NOT OK ☐ N.A	
FLOAT TO QUICK MODE BY AC FAULT TIMER (HOURS)	0.5		☒ OK ☐ NOT OK ☐ N.A	
INITIAL TO FLOAT MODE BY TIMER (HOURS)	16		☒ OK ☐ NOT OK ☐ N.A	
CHARGER CURRENT LIMIT(ADC)	300		☒ OK ☐ NOT OK ☐ N.A	
BATTERY CURRENT LIMIT(ADC)	105.2		☒ OK ☐ NOT OK ☐ N.A	
HIGH TEMPERATURE	T ≥ 90 °C		☒ OK ☐ NOT OK ☐ N.A	
SOFT START	...		☒ OK ☐ NOT OK ☐ N.A	
CHARGE FAIL	347.5		☒ OK ☐ NOT OK ☐ N.A	
AC INPUT FAULT FOR V < (V _{IN} - 10%)	...		☐ OK ☐ NOT OK ☐ N.A	
AC INPUT FAULT FOR V > (V _{IN} + 10%)	...		☐ OK ☐ NOT OK ☐ N.A	
ALARM & ALARM RESET	...		☒ OK ☐ NOT OK ☐ N.A	
REMOTE & LIGHTING	...		☒ OK ☐ NOT OK ☐ N.A	
METER & LCD	...		☒ OK ☐ NOT OK ☐ N.A	
CONTACTOR & RELAYS	...		☐ OK ☐ NOT OK ☒ N.A	
FAN & THERMOSTAT	T ≥ 70 °C		☒ OK ☐ NOT OK ☐ N.A	
MCBs & MCCBs	...		☒ OK ☐ NOT OK ☐ N.A	
FUSES & TERMINALS	...		☒ OK ☐ NOT OK ☐ N.A	
HEATER & THERMOSTAT	...		☒ OK ☐ NOT OK ☒ N.A	
DC EARTH FAULT (+) & (-)	...		☒ OK ☐ NOT OK ☐ N.A	
OUT. VOLTAGE RIPPLE AT FULL LOAD WITHOUT BATT. (%)	± 2 %		☐ OK ☐ NOT OK ☐ N.A	
AUDIBLE NOISE TEST(dB)	≤ 65		☐ OK ☐ NOT OK ☐ N.A	70 DB accepted

EFFICIENCY & REGULATION TABLE OF CHARGER :

STAGE	V1 IN	I1 IN	P1 IN	V2 IN	I2 IN	P2 IN	V3 IN	I3 IN	P3 IN	P _T	V _{DC}	I _{DC}	P _{OUT}	η %
0.25In	278	10.11	278	278	10.11	278	278	11	11		278	10.11	278	
0.5In	278	10.11	278	278	10.11	278	278	11	11		278	10.11	278	
0.75In	278	10.11	278	278	10.11	278	278	11	11		278	10.11	278	
In	278	10.11	278	278	10.11	278	278	11	11	122.07	278	10.11	278	93

EFFICIENCY & REGULATION TABLE OF DC/DC CONVERTER/DROPPER DIODES :

STAGE	V _{IN}	I _{IN}	P _{IN}	V _{OUT}	I _{OUT}	P _{OUT}	η %
0.25In							
0.5In							
0.75In							
In							

Abbreviation: N/A: Not Applicable	T: Temperature	In: nominal current
TESTED BY:	Q.C BY:	
DATE:	DATE:	
SIGN:	SIGN:	



Ripple
2V_{out}
1.5

[Handwritten signature]

[Handwritten signature]
1402/11/14 9 am

Doc Description	Document Number	Version	POI	Status
Equipment Catalogue for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-OT-002	V0	IFI	AN
Equipment Catalogue for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-OT-002	V1	IFI	AP
2 Years Spare Part List for AC UPS	CT-PL-21-072-LS-010	V1	IFA	IN
2 Years Spare Part List for AC UPS	CT-PL-21-072-LS-010	V0	IFA	AN
2 Years Spare Part List for DC UPS	CT-PL-21-072-LS-016	V0	IFA	AN
2 Years Spare Part List for DC UPS	CT-PL-21-072-LS-016	V1	IFA	IN
Charger & Battery Sizing for AC UPS (AC UPS-BC-20002)	CT-PL-21-072-CA-007	V3	IFA	AP
	CT-PL-21-072-CA-007	V1	IFA	RJ
	CT-PL-21-072-CA-007	V0	IFA	NF
Charger & Battery Sizing for AC UPS (AC UPS-BC-20002)	CT-PL-21-072-CA-007	V2	IFA	NF
Charger & Battery Sizing for AC UPS (AC UPS-BC-20004)	CT-PL-21-072-CA-003	V3	IFA	AP
	CT-PL-21-072-CA-003	V1	IFA	RJ
	CT-PL-21-072-CA-003	V0	IFA	NF
Charger & Battery Sizing for AC UPS (AC UPS-BC-20004)	CT-PL-21-072-CA-003	V2	IFA	NF
Charger & Battery Sizing for AC UPS (AC UPS-BC-20005)	CT-PL-21-072-CA-001	V3	IFA	AP
	CT-PL-21-072-CA-001	V1	IFA	RJ
	CT-PL-21-072-CA-001	V0	IFA	NF
Charger & Battery Sizing for AC UPS (AC UPS-BC-20005)	CT-PL-21-072-CA-001	V2	IFA	NF
Charger & Battery Sizing for AC UPS (AC UPS-BC-20007)	CT-PL-21-072-CA-005	V3	IFA	AP
	CT-PL-21-072-CA-005	V1	IFA	RJ
	CT-PL-21-072-CA-005	V0	IFA	NF
Charger & Battery Sizing for AC UPS (AC UPS-BC-20007)	CT-PL-21-072-CA-005	V2	IFA	NF
Charger & Battery Sizing for AC UPS (AC UPS-BC-20008)	CT-PL-21-072-CA-006	V3	IFA	AP
	CT-PL-21-072-CA-006	V1	IFA	RJ
	CT-PL-21-072-CA-006	V0	IFA	NF
Charger & Battery Sizing for AC UPS (AC UPS-BC-20008)	CT-PL-21-072-CA-006	V2	IFA	NF
Charger & Battery Sizing for AC UPS (AC UPS-BC-20015)	CT-PL-21-072-CA-004	V3	IFA	AP
	CT-PL-21-072-CA-004	V1	IFA	RJ
	CT-PL-21-072-CA-004	V0	IFA	NF
Charger & Battery Sizing for AC UPS (AC UPS-BC-20015)	CT-PL-21-072-CA-004	V2	IFA	NF
Charger & Battery Sizing for AC UPS (AC UPS-BC-20018)	CT-PL-21-072-CA-002	V3	IFA	AN
	CT-PL-21-072-CA-002	V4	IFA	AP
	CT-PL-21-072-CA-002	V1	IFA	RJ
	CT-PL-21-072-CA-002	V0	IFA	NF
	CT-PL-21-072-CA-002	V2	IFA	NF
Charger & Battery Sizing for AC UPS (AC UPS-BC-20018)	CT-PL-21-072-CA-002	V5	IFA	AP
Charger & Battery Sizing for DC UPS (DC UPS-BC-20005)	CT-PL-21-072-CA-008	V3	IFA	AP
	CT-PL-21-072-CA-008	V1	IFA	RJ
	CT-PL-21-072-CA-008	V0	IFA	NF
Charger & Battery Sizing for DC UPS (DC UPS-BC-20005)	CT-PL-21-072-CA-008	V2	IFA	AN
Charger & Battery Sizing for DC UPS (DC UPS-BC-20007)	CT-PL-21-072-CA-009	V3	IFA	AP
	CT-PL-21-072-CA-009	V1	IFA	RJ
	CT-PL-21-072-CA-009	V0	IFA	NF
Charger & Battery Sizing for DC UPS (DC UPS-BC-20007)	CT-PL-21-072-CA-009	V2	IFA	AN
Charger & Battery Sizing for DC UPS (DC UPS-BC-20008)	CT-PL-21-072-CA-010	V3	IFA	AP
	CT-PL-21-072-CA-010	V1	IFA	RJ
	CT-PL-21-072-CA-010	V0	IFA	NF
Charger & Battery Sizing for DC UPS (DC UPS-BC-20008)	CT-PL-21-072-CA-010	V2	IFA	AN
Charger & Battery Sizing for DC UPS (DC UPS-BC-20015)	CT-PL-21-072-CA-011	V3	IFA	AP
	CT-PL-21-072-CA-011	V1	IFA	RJ
	CT-PL-21-072-CA-011	V0	IFA	NF
Charger & Battery Sizing for DC UPS (DC UPS-BC-20015)	CT-PL-21-072-CA-011	V2	IFA	AN
Data Sheet for AC UPS (AC UPS-BD-20002)	CT-PL-21-072-DS-007	V0	IFA	AN
	CT-PL-21-072-DS-007	V2	IFA	AP
Data Sheet for AC UPS (AC UPS-BD-20002)	CT-PL-21-072-DS-007	V1	IFA	AN
Data Sheet for AC UPS (AC UPS-BD-20004)	CT-PL-21-072-DS-003	V0	IFA	AN
	CT-PL-21-072-DS-003	V1	IFA	AN
Data Sheet for AC UPS (AC UPS-BD-20004)	CT-PL-21-072-DS-003	V2	IFA	AP
Data Sheet for AC UPS (AC UPS-BD-20005)	CT-PL-21-072-DS-001	V1	IFA	AN
	CT-PL-21-072-DS-001	V0	IFA	AN
	CT-PL-21-072-DS-001	V3	IFA	AP
Data Sheet for AC UPS (AC UPS-BD-20005)	CT-PL-21-072-DS-001	V2	IFA	AN
Data Sheet for AC UPS (AC UPS-BD-20007)	CT-PL-21-072-DS-005	V0	IFA	AN
	CT-PL-21-072-DS-005	V2	IFA	AP
Data Sheet for AC UPS (AC UPS-BD-20007)	CT-PL-21-072-DS-005	V1	IFA	AN
Data Sheet for AC UPS (AC UPS-BD-20008)	CT-PL-21-072-DS-006	V0	IFA	AN
	CT-PL-21-072-DS-006	V2	IFA	AP
Data Sheet for AC UPS (AC UPS-BD-20008)	CT-PL-21-072-DS-006	V1	IFA	AN
Data Sheet for AC UPS (AC UPS-BD-20015)	CT-PL-21-072-DS-004	V0	IFA	AN
	CT-PL-21-072-DS-004	V1	IFA	AN
Data Sheet for AC UPS (AC UPS-BD-20015)	CT-PL-21-072-DS-004	V2	IFA	AP
Data Sheet for AC UPS (AC UPS-BD-20018)	CT-PL-21-072-DS-002	V0	IFA	AN
	CT-PL-21-072-DS-002	V1	IFA	AN
Data Sheet for AC UPS (AC UPS-BD-20018)	CT-PL-21-072-DS-002	V2	IFA	AP
Data Sheet for DC UPS (DC UPS-BD-20005)	CT-PL-21-072-DS-008	V0	IFA	AN
Data Sheet for DC UPS (DC UPS-BD-20005)	CT-PL-21-072-DS-008	V1	IFA	AP
Data Sheet for DC UPS (DC UPS-BD-20007)	CT-PL-21-072-DS-009	V0	IFA	AN
Data Sheet for DC UPS (DC UPS-BD-20007)	CT-PL-21-072-DS-009	V1	IFA	AP
Data Sheet for DC UPS (DC UPS-BD-20008)	CT-PL-21-072-DS-010	V0	IFA	AN
Data Sheet for DC UPS (DC UPS-BD-20008)	CT-PL-21-072-DS-010	V1	IFA	AP
Data Sheet for DC UPS (DC UPS-BD-20015)	CT-PL-21-072-DS-011	V0	IFA	AN
Data Sheet for DC UPS (DC UPS-BD-20015)	CT-PL-21-072-DS-011	V1	IFA	AP
FAT Procedure for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-PR-005	V0	IFA	AN

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Storage & Preservation Guide for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-MU-002	V0	IFA	AP
Sub Vendor List for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-LS-002	V1	IFA	AP
Sub Vendor List for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-LS-002	V0	IFA	NF
Terminal Diagram & Schematic Indication for AC UPS (AC UPS-BD-20002)	CT-PL-21-072-DW-021	V0	IFA	NF
	CT-PL-21-072-DW-021	V1	IFA	AN
	CT-PL-21-072-DW-021	V2	IFA	AN
Terminal Diagram & Schematic Indication for AC UPS (AC UPS-BD-20002)	CT-PL-21-072-DW-021	V3	IFA	AP
Terminal Diagram & Schematic Indication for AC UPS (AC UPS-BD-20004)	CT-PL-21-072-DW-017	V0	IFA	NF
	CT-PL-21-072-DW-017	V1	IFA	AN
	CT-PL-21-072-DW-017	V2	IFA	AN
Terminal Diagram & Schematic Indication for AC UPS (AC UPS-BD-20004)	CT-PL-21-072-DW-017	V3	IFA	AP
Terminal Diagram & Schematic Indication for AC UPS (AC UPS-BD-20005)	CT-PL-21-072-DW-015	V0	IFA	NF
	CT-PL-21-072-DW-015	V1	IFA	AN
	CT-PL-21-072-DW-015	V2	IFA	AN
Terminal Diagram & Schematic Indication for AC UPS (AC UPS-BD-20005)	CT-PL-21-072-DW-015	V3	IFA	AP
Terminal Diagram & Schematic Indication for AC UPS (AC UPS-BD-20007)	CT-PL-21-072-DW-019	V0	IFA	NF
	CT-PL-21-072-DW-019	V1	IFA	AN
	CT-PL-21-072-DW-019	V2	IFA	AN
Terminal Diagram & Schematic Indication for AC UPS (AC UPS-BD-20007)	CT-PL-21-072-DW-019	V3	IFA	AP
Terminal Diagram & Schematic Indication for AC UPS (AC UPS-BD-20008)	CT-PL-21-072-DW-020	V0	IFA	NF
	CT-PL-21-072-DW-020	V1	IFA	AN
	CT-PL-21-072-DW-020	V2	IFA	AN
Terminal Diagram & Schematic Indication for AC UPS (AC UPS-BD-20008)	CT-PL-21-072-DW-020	V3	IFA	AP
Terminal Diagram & Schematic Indication for AC UPS (AC UPS-BD-20015)	CT-PL-21-072-DW-018	V0	IFA	NF
	CT-PL-21-072-DW-018	V1	IFA	AN
	CT-PL-21-072-DW-018	V2	IFA	AN
Terminal Diagram & Schematic Indication for AC UPS (AC UPS-BD-20015)	CT-PL-21-072-DW-018	V3	IFA	AP
Terminal Diagram & Schematic Indication for AC UPS (AC UPS-BD-20018)	CT-PL-21-072-DW-016	V0	IFA	NF
	CT-PL-21-072-DW-016	V1	IFA	AN
	CT-PL-21-072-DW-016	V2	IFA	AN
Terminal Diagram & Schematic Indication for AC UPS (AC UPS-BD-20018)	CT-PL-21-072-DW-016	V3	IFA	AP
Terminal Diagram & Schematic Indication for DC UPS (DC UPS-BD-20005)	CT-PL-21-072-DW-030	V0	IFA	NF
	CT-PL-21-072-DW-030	V1	IFA	AN
	CT-PL-21-072-DW-030	V2	IFA	AN
	CT-PL-21-072-DW-030	V3	IFA	AN
	CT-PL-21-072-DW-030	V4	IFA	AN
Terminal Diagram & Schematic Indication for DC UPS (DC UPS-BD-20005)	CT-PL-21-072-DW-030	V5	IFA	AP
Terminal Diagram & Schematic Indication for DC UPS (DC UPS-BD-20007)	CT-PL-21-072-DW-031	V0	IFA	NF
	CT-PL-21-072-DW-031	V1	IFA	AN
	CT-PL-21-072-DW-031	V2	IFA	AN
	CT-PL-21-072-DW-031	V3	IFA	AN
	CT-PL-21-072-DW-031	V4	IFA	AN
Terminal Diagram & Schematic Indication for DC UPS (DC UPS-BD-20007)	CT-PL-21-072-DW-031	V5	IFA	AP
Terminal Diagram & Schematic Indication for DC UPS (DC UPS-BD-20008)	CT-PL-21-072-DW-032	V0	IFA	NF
	CT-PL-21-072-DW-032	V1	IFA	AN
	CT-PL-21-072-DW-032	V2	IFA	AN
	CT-PL-21-072-DW-032	V3	IFA	AN
	CT-PL-21-072-DW-032	V4	IFA	AN
Terminal Diagram & Schematic Indication for DC UPS (DC UPS-BD-20008)	CT-PL-21-072-DW-032	V5	IFA	AP
Terminal Diagram & Schematic Indication for DC UPS (DC UPS-BD-20015)	CT-PL-21-072-DW-033	V0	IFA	NF
	CT-PL-21-072-DW-033	V1	IFA	AN
	CT-PL-21-072-DW-033	V2	IFA	AN
	CT-PL-21-072-DW-033	V3	IFA	AN
	CT-PL-21-072-DW-033	V4	IFA	AN
Terminal Diagram & Schematic Indication for DC UPS (DC UPS-BD-20015)	CT-PL-21-072-DW-033	V5	IFA	AP
Type Test Certificate for AC/DC UPS	CT-PL-21-072-CE-001	V0	IFI	RJ
Vendor Print Index and Schedule (VPIS) for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-LS-001	V3	IFA	NF
	CT-PL-21-072-LS-001	V1	IFA	NF
	CT-PL-21-072-LS-001	V0	IFA	NF
	CT-PL-21-072-LS-001	V2	IFA	AN
Vendor Print Index and Schedule (VPIS) for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-LS-001	V4	IFA	AP

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Part List for AC UPS (AC UPS-BD-20004)	CT-PL-21-072-LS-005	V0	IFA	AN
Part List for AC UPS (AC UPS-BD-20005)	CT-PL-21-072-LS-003	V1	IFA	AN
	CT-PL-21-072-LS-003	V2	IFA	AP
Part List for AC UPS (AC UPS-BD-20005)	CT-PL-21-072-LS-003	V0	IFA	AN
Part List for AC UPS (AC UPS-BD-20007)	CT-PL-21-072-LS-007	V1	IFA	AN
	CT-PL-21-072-LS-007	V2	IFA	AP
Part List for AC UPS (AC UPS-BD-20007)	CT-PL-21-072-LS-007	V0	IFA	AN
Part List for AC UPS (AC UPS-BD-20008)	CT-PL-21-072-LS-008	V1	IFA	AN
	CT-PL-21-072-LS-008	V2	IFA	AP
Part List for AC UPS (AC UPS-BD-20008)	CT-PL-21-072-LS-008	V0	IFA	AN
Part List for AC UPS (AC UPS-BD-20015)	CT-PL-21-072-LS-006	V1	IFA	AN
	CT-PL-21-072-LS-006	V2	IFA	AP
Part List for AC UPS (AC UPS-BD-20015)	CT-PL-21-072-LS-006	V0	IFA	AN
Part List for AC UPS (AC UPS-BD-20018)	CT-PL-21-072-LS-004	V1	IFA	AN
	CT-PL-21-072-LS-004	V2	IFA	AP
Part List for AC UPS (AC UPS-BD-20018)	CT-PL-21-072-LS-004	V0	IFA	AN
Part List for Dc Ups (Dc Ups-Bd-20005)	CT-PL-21-072-LS-012	V1	IFA	AN
	CT-PL-21-072-LS-012	V3	IFA	AP
	CT-PL-21-072-LS-012	V2	IFA	AN
Part List for Dc Ups (Dc Ups-Bd-20005)	CT-PL-21-072-LS-012	V0	IFA	AN
Part List for DC UPS (DC UPS-BD-20007)	CT-PL-21-072-LS-013	V1	IFA	AN
	CT-PL-21-072-LS-013	V3	IFA	AP
	CT-PL-21-072-LS-013	V2	IFA	AN
Part List for DC UPS (DC UPS-BD-20007)	CT-PL-21-072-LS-013	V0	IFA	AN
Part List for DC UPS (DC UPS-BD-20008)	CT-PL-21-072-LS-014	V1	IFA	AN
	CT-PL-21-072-LS-014	V3	IFA	AP
	CT-PL-21-072-LS-014	V2	IFA	AN
Part List for DC UPS (DC UPS-BD-20008)	CT-PL-21-072-LS-014	V0	IFA	AN
Part List for DC UPS (DC UPS-BD-20015)	CT-PL-21-072-LS-015	V1	IFA	AN
	CT-PL-21-072-LS-015	V3	IFA	AP
	CT-PL-21-072-LS-015	V2	IFA	AN
Part List for DC UPS (DC UPS-BD-20015)	CT-PL-21-072-LS-015	V0	IFA	AN
QC Plan for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-OT-001	V2	IFR	NF
	CT-PL-21-072-OT-001	V0	IFR	NF
	CT-PL-21-072-OT-001	V1	IFR	NF
	CT-PL-21-072-OT-001	V3	IFR	AP
QC Plan for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-PR-006	V0	IFA	AP
SAT Procedure for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-PR-004	V0	IFA	AP
Shipping Procedure for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-DW-007	V1	IFA	AN
Single Line Diagram for AC UPS (AC UPS-BD-20002)	CT-PL-21-072-DW-007	V0	IFA	NF
	CT-PL-21-072-DW-007	V3	IFA	AP
Single Line Diagram for AC UPS (AC UPS-BD-20002)	CT-PL-21-072-DW-007	V2	IFA	AP
Single Line Diagram for AC UPS (AC UPS-BD-20004)	CT-PL-21-072-DW-003	V1	IFA	AN
	CT-PL-21-072-DW-003	V0	IFA	NF
	CT-PL-21-072-DW-003	V3	IFA	AP
Single Line Diagram for AC UPS (AC UPS-BD-20004)	CT-PL-21-072-DW-003	V2	IFA	AP
Single Line Diagram for AC UPS (AC UPS-BD-20005)	CT-PL-21-072-DW-001	V2	IFA	AN
	CT-PL-21-072-DW-001	V1	IFA	NF
	CT-PL-21-072-DW-001	V0	IFA	NF
	CT-PL-21-072-DW-001	V4	IFA	AP
Single Line Diagram for AC UPS (AC UPS-BD-20005)	CT-PL-21-072-DW-001	V3	IFA	AP
Single Line Diagram for AC UPS (AC UPS-BD-20007)	CT-PL-21-072-DW-005	V1	IFA	AN
	CT-PL-21-072-DW-005	V0	IFA	NF
	CT-PL-21-072-DW-005	V3	IFA	AP
Single Line Diagram for AC UPS (AC UPS-BD-20007)	CT-PL-21-072-DW-005	V2	IFA	AP
Single Line Diagram for AC UPS (AC UPS-BD-20008)	CT-PL-21-072-DW-006	V1	IFA	AN
	CT-PL-21-072-DW-006	V0	IFA	NF
	CT-PL-21-072-DW-006	V3	IFA	AP
Single Line Diagram for AC UPS (AC UPS-BD-20008)	CT-PL-21-072-DW-006	V2	IFA	AP
Single Line Diagram for AC UPS (AC UPS-BD-20015)	CT-PL-21-072-DW-004	V1	IFA	AN
	CT-PL-21-072-DW-004	V0	IFA	NF
	CT-PL-21-072-DW-004	V3	IFA	AP
Single Line Diagram for AC UPS (AC UPS-BD-20015)	CT-PL-21-072-DW-004	V2	IFA	AP
Single Line Diagram for AC UPS (AC UPS-BD-20018)	CT-PL-21-072-DW-002	V1	IFA	AN
	CT-PL-21-072-DW-002	V0	IFA	NF
	CT-PL-21-072-DW-002	V3	IFA	AP
	CT-PL-21-072-DW-002	V4	IFA	AP
Single Line Diagram for AC UPS (AC UPS-BD-20018)	CT-PL-21-072-DW-002	V2	IFA	AP
Single Line Diagram for DC UPS (DC UPS-BD-20005)	CT-PL-21-072-DW-022	V1	IFA	AN
	CT-PL-21-072-DW-022	V0	IFA	NF
	CT-PL-21-072-DW-022	V2	IFA	AP
Single Line Diagram for DC UPS (DC UPS-BD-20005)	CT-PL-21-072-DW-022	V3	IFA	AP
Single Line Diagram for DC UPS (DC UPS-BD-20007)	CT-PL-21-072-DW-023	V1	IFA	AN
	CT-PL-21-072-DW-023	V0	IFA	NF
	CT-PL-21-072-DW-023	V2	IFA	AP
Single Line Diagram for DC UPS (DC UPS-BD-20007)	CT-PL-21-072-DW-023	V3	IFA	AP
Single Line Diagram for DC UPS (DC UPS-BD-20008)	CT-PL-21-072-DW-024	V1	IFA	AN
	CT-PL-21-072-DW-024	V0	IFA	NF
	CT-PL-21-072-DW-024	V2	IFA	AP
Single Line Diagram for DC UPS (DC UPS-BD-20008)	CT-PL-21-072-DW-024	V3	IFA	AP
Single Line Diagram for DC UPS (DC UPS-BD-20015)	CT-PL-21-072-DW-025	V1	IFA	AN
	CT-PL-21-072-DW-025	V0	IFA	NF
	CT-PL-21-072-DW-025	V2	IFA	AP
Single Line Diagram for DC UPS (DC UPS-BD-20015)	CT-PL-21-072-DW-025	V3	IFA	AP

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FAT Procedure for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-PR-005	V1	IFA	AP
Front View & Foot Print for AC UPS (AC UPS-BD-20002)	CT-PL-21-072-DW-014	V1	IFA	AN
	CT-PL-21-072-DW-014	V2	IFA	AN
	CT-PL-21-072-DW-014	V0	IFA	NF
Front View & Foot Print for AC UPS (AC UPS-BD-20002)	CT-PL-21-072-DW-014	V3	IFA	AP
Front View & Foot Print for AC UPS (AC UPS-BD-20004)	CT-PL-21-072-DW-010	V1	IFA	AN
	CT-PL-21-072-DW-010	V2	IFA	AN
	CT-PL-21-072-DW-010	V0	IFA	NF
Front View & Foot Print for AC UPS (AC UPS-BD-20004)	CT-PL-21-072-DW-010	V3	IFA	AP
Front View & Foot Print for AC UPS (AC UPS-BD-20005)	CT-PL-21-072-DW-008	V1	IFA	AN
	CT-PL-21-072-DW-008	V2	IFA	AN
	CT-PL-21-072-DW-008	V0	IFA	NF
Front View & Foot Print for AC UPS (AC UPS-BD-20005)	CT-PL-21-072-DW-008	V3	IFA	AP
Front View & Foot Print for AC UPS (AC UPS-BD-20007)	CT-PL-21-072-DW-012	V1	IFA	AN
	CT-PL-21-072-DW-012	V2	IFA	AN
	CT-PL-21-072-DW-012	V0	IFA	NF
Front View & Foot Print for AC UPS (AC UPS-BD-20007)	CT-PL-21-072-DW-012	V3	IFA	AP
Front View & Foot Print for AC UPS (AC UPS-BD-20008)	CT-PL-21-072-DW-013	V1	IFA	AN
	CT-PL-21-072-DW-013	V2	IFA	AN
	CT-PL-21-072-DW-013	V0	IFA	NF
Front View & Foot Print for AC UPS (AC UPS-BD-20008)	CT-PL-21-072-DW-013	V3	IFA	AP
Front View & Foot Print for AC UPS (AC UPS-BD-20015)	CT-PL-21-072-DW-011	V1	IFA	AN
	CT-PL-21-072-DW-011	V2	IFA	AN
	CT-PL-21-072-DW-011	V0	IFA	NF
Front View & Foot Print for AC UPS (AC UPS-BD-20015)	CT-PL-21-072-DW-011	V3	IFA	AP
Front View & Foot Print for AC UPS (AC UPS-BD-20018)	CT-PL-21-072-DW-009	V1	IFA	AN
	CT-PL-21-072-DW-009	V2	IFA	AN
	CT-PL-21-072-DW-009	V0	IFA	NF
Front View & Foot Print for AC UPS (AC UPS-BD-20018)	CT-PL-21-072-DW-009	V3	IFA	AP
Front View & Foot Print for DC UPS (DC UPS-BD-20005)	CT-PL-21-072-DW-026	V1	IFA	AN
	CT-PL-21-072-DW-026	V2	IFA	AP
Front View & Foot Print for DC UPS (DC UPS-BD-20005)	CT-PL-21-072-DW-026	V0	IFA	NF
Front View & Foot Print for DC UPS (DC UPS-BD-20007)	CT-PL-21-072-DW-027	V1	IFA	AN
	CT-PL-21-072-DW-027	V2	IFA	AP
Front View & Foot Print for DC UPS (DC UPS-BD-20007)	CT-PL-21-072-DW-027	V0	IFA	NF
Front View & Foot Print for DC UPS (DC UPS-BD-20008)	CT-PL-21-072-DW-028	V1	IFA	AN
	CT-PL-21-072-DW-028	V2	IFA	AP
Front View & Foot Print for DC UPS (DC UPS-BD-20008)	CT-PL-21-072-DW-028	V0	IFA	NF
Front View & Foot Print for DC UPS (DC UPS-BD-20015)	CT-PL-21-072-DW-029	V1	IFA	AN
	CT-PL-21-072-DW-029	V2	IFA	AP
Front View & Foot Print for DC UPS (DC UPS-BD-20015)	CT-PL-21-072-DW-029	V0	IFA	NF
Inspection & Test Plan (ITP) for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-IR-001	V2	IFA	AP
	CT-PL-21-072-IR-001	V1	IFA	NF
Inspection & Test Plan (ITP) for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-IR-001	V0	IFA	RJ
Inspection & Test Procedure for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-PR-003	V2	IFA	AP
	CT-PL-21-072-PR-003	V1	IFA	NF
Inspection & Test Procedure for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-PR-003	V0	IFA	NF
Installation & Commissioning Spare Part List for AC UPS	CT-PL-21-072-LS-011	V0	IFA	RJ
Installation & Commissioning Spare Part List for AC UPS	CT-PL-21-072-LS-011	V1	IFA	IN
Installation & Commissioning Spare Part List for DC UPS	CT-PL-21-072-LS-017	V0	IFA	RJ
Installation & Commissioning Spare Part List for DC UPS	CT-PL-21-072-LS-017	V1	IFA	IN
Installation, Operation & Maintenance Manual for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-MU-003	V0	IFA	AP
Installation, Operation & Maintenance Manual for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-MU-004	V0	IFA	AP
Name Plate for AC UPS (AC UPS-BD-20002)	CT-PL-21-072-SP-007	V1	IFA	AP
Name Plate for AC UPS (AC UPS-BD-20002)	CT-PL-21-072-SP-007	V0	IFA	AN
Name Plate for AC UPS (AC UPS-BD-20004)	CT-PL-21-072-SP-003	V1	IFA	AP
Name Plate for AC UPS (AC UPS-BD-20004)	CT-PL-21-072-SP-003	V0	IFA	AN
Name Plate for AC UPS (AC UPS-BD-20005)	CT-PL-21-072-SP-001	V1	IFA	AP
Name Plate for AC UPS (AC UPS-BD-20005)	CT-PL-21-072-SP-001	V0	IFA	AN
Name Plate for AC UPS (AC UPS-BD-20007)	CT-PL-21-072-SP-005	V1	IFA	AP
Name Plate for AC UPS (AC UPS-BD-20007)	CT-PL-21-072-SP-005	V0	IFA	AN
Name Plate for AC UPS (AC UPS-BD-20008)	CT-PL-21-072-SP-006	V1	IFA	AP
Name Plate for AC UPS (AC UPS-BD-20008)	CT-PL-21-072-SP-006	V0	IFA	AN
Name Plate for AC UPS (AC UPS-BD-20015)	CT-PL-21-072-SP-004	V1	IFA	AP
Name Plate for AC UPS (AC UPS-BD-20015)	CT-PL-21-072-SP-004	V0	IFA	AN
Name Plate for AC UPS (AC UPS-BD-20018)	CT-PL-21-072-SP-002	V1	IFA	AP
Name Plate for AC UPS (AC UPS-BD-20018)	CT-PL-21-072-SP-002	V0	IFA	AN
Name Plate for DC UPS (DC UPS-BD-20005)	CT-PL-21-072-SP-008	V1	IFA	AP
Name Plate for DC UPS (DC UPS-BD-20005)	CT-PL-21-072-SP-008	V0	IFA	AN
Name Plate for DC UPS (DC UPS-BD-20007)	CT-PL-21-072-SP-009	V1	IFA	AP
Name Plate for DC UPS (DC UPS-BD-20007)	CT-PL-21-072-SP-009	V0	IFA	AN
Name Plate for DC UPS (DC UPS-BD-20008)	CT-PL-21-072-SP-010	V1	IFA	AP
Name Plate for DC UPS (DC UPS-BD-20008)	CT-PL-21-072-SP-010	V0	IFA	AN
Name Plate for DC UPS (DC UPS-BD-20015)	CT-PL-21-072-SP-011	V1	IFA	AP
Name Plate for DC UPS (DC UPS-BD-20015)	CT-PL-21-072-SP-011	V0	IFA	AN
Organization Chart for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-OT-003	V0	IFA	AP
Packing & Marking Procedure for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-PR-001	V0	IFA	NR
Painting Procedures for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-PR-002	V0	IFA	NF
Painting Procedures for AC & DC Uninterruptible Power Supply (UPS)	CT-PL-21-072-PR-002	V1	IFA	AP
Part List for AC UPS (AC UPS-BD-20002)	CT-PL-21-072-LS-009	V1	IFA	AN
	CT-PL-21-072-LS-009	V2	IFA	AP
Part List for AC UPS (AC UPS-BD-20002)	CT-PL-21-072-LS-009	V0	IFA	AN
Part List for AC UPS (AC UPS-BD-20004)	CT-PL-21-072-LS-005	V1	IFA	AN
	CT-PL-21-072-LS-005	V2	IFA	AP

18.5, 10, 14

 		National Iranian Oil Company Petroleum Engineering and Development Company South Azadegan Oil Field Development Project Phase I Central Treatment and Export Plant (CTEP)				
Contract No.: CT-PL-21-072		DOCUMENT TITLE: Data Sheet for AC UPS (AC UPS-BD-20008)		POI : IFA		
		DOCUMENT NUMBER: CT-PL-21-072-DS-006		Rev. No.: D02		
DATA SHEET FOR A.C. UPS System						
Rev.		PARTICULARS OF EQUIPMENT	UNITS	PURCHASER REQUIRMENTS	VENDOR RESPONSE	Rev.
D00	A	APPLICABLE SPECIFICATION & STANDARD				
D00	1	TECHNICAL SPECIFICATION FOR AC UNINTRRUPTIBLE POWER SUPPLIES		SA01-CTEPXX-SDEL-SPEL-0006	OK	
D00	2	METERIAL AND EQUIPMENT STANDARD FOR AC UNINTRRUPTIBLE POWER SUPPLIES		IPS-M-EL-176	OK	
D01	B	DELETED				
D00	C	CLIMATIC CONDITIONS				
D00	1	SITE MIN./MAX. AMBIENT TEMPERATURE	°C	-4 / 52 (DESIGN TEMPERATURE)	OK	
D00	2	INDOOR TEMPRATURE	°C	5-45	OK	
D00	3	MONTHLY AVERAGE MIN./MAX. AMBIENT TEMPERATURE	°C	6 / 45	OK	
D00	4	ALTITUDE (ABOVE MSL)	m	NOT MORE THAN 6m ABOVE SEA LEVEL	OK	
D00	5	RELATIVE HUMIDITY	%	25.9% To 76.4%	OK	
D00	6	LOCATION		Indoor	OK	
D00	D	INPUT CHARACTERISTICS				
D00	1	NUMBERS OF SUPPLY		2 MAINS AND 1 BYPASS	OK	
D00	2	MAIN INPUT RATED VOLTAGE		3PH / 400V±10%	OK	
D00	3	BYPASS INPUT RATED VOLTAGE		3PH / 400V±10%	OK	
D00	4	POWER FACTOR		0.8	0.85	
D00	5	INPUT POWER		BY VENDOR	207 KVA	
D00	6	RATED FREQUENCY		50Hz±5%	OK	
D01	7	3PH FAULT LEVEL DURATION 1S		65kA	OK	
D00	8	METHOD OF SYSTEM EARTHING		TN-S	OK	
D01	9	CONTENT OF INPUT VOLTAGE HARMONIC WAVES		LESS THAN 10%	OK	
D00	E	OUTPUT CHARACTERISTICS				
D00	1	RATED OUTPUT POWER		REFER TO RELATED SINGLE LINE DIAGRAM	95 KVA	
D00	2	BACKUP TIME AT FULL LOAD	hr	1	OK	
D00	3	OUTPUT VOLTAGE / NUNBER OF PHASES		110V/1Ph	OK	
D00	4	RATED FREQUENCY		50Hz±1%	OK	
D00	5	OUTPUT CURRENT		BY VENDOR	863.63 A	
D00	6	OUTPUT CURRENT	mS	<5	OK	
D00	7	RATED CAPACITY OF EACH UNIT	kVA	100% OF THE REATED CAPACITY	OK	
D00	8	METHOD OF SYSTEM EARTHING		TN-S	OK	
D00	9	MAXIMUM CONTINUOUS RATED OUTPUT OF UPS AT 0.8 POWER FACTOR	kVA	BY VENDOR	92.200	
D00	10	OVERALL EFFICIENCY OF FULL LOAD & 50% LOAD		BY VENDOR	90%	
D00	11	COMMON ALARM (VOLT FREE CONTACT)		REQUIRED	OK	
D00	F	DISTRIBUTION SYSTEM				
D01	1	TYPE OF INPUT SWITCH		REFER TO RELATED SINGLE LINE DIAGRAM	MCCB	
D01	2	TYPE OF OUTPUT SWITCH		REFER TO RELATED SINGLE LINE DIAGRAM	MCCB	
D01	3	NUMBER OF POLES OF OUTPUT SWITCH		REFER TO RELATED SINGLE LINE DIAGRAM	3P	
D00	4	RATED CURRENT PER CIRCUIT		REFER TO RELATED SINGLE LINE DIAGRAM	1000AAC	
D00	5	LOAD TYPE		EQUIPMENT OF INSTRUMENT AND COMMUNICATION	OK	
D01	6	AC VOLTMETER FOR INCOMING		REQUIRED	OK	
D01	7	AC AMMETER FOR INCOMING		REQUIRED	OK	
D01	8	FREQUENCY METER FOR INCOMING		REQUIRED	OK	

3rd Rating Output . 1000 AAC

شماره مدرک: 2R-FO-298	فرم صورتجلسه بازرسی (Minutes Of Meeting)	
شماره ویرایش: ۰۲		
تاریخ صدور/تجدید نظر: ۱۴۰۲/۱۰/۲۷		
صفحه: ۱ از ۱		

درخواست بازرسی: RFI (Request For Inspection):	
Contractor: پیمانکار:	Project: پروژه:
Supplier: تامین کننده:	Employer: کارفرما:
Date: زمان برگزاری:	Location: مکان برگزاری:
Subject: موضوع:	
Material Description: نام کالا/تجهیز:	
Participants: حاضران جلسه:	

شرح بازرسی: Description Of Signature:

۱۲- تست‌ها و آزمایش‌های Logic عملکردی و Load sharing در UPS 2000 8 A/B (8cell) و UPS 2000 7 A/B (6cell) به صورت آزمایشی ظرفیت ۱۵۰ کیلووات هر یک از UPS ها تست شد و نتایج قابل قبول می باشد. (بدون Drope Load بروی بار)

۱۳- گواهی مدارک گمانه درآزمون‌ها مورد استفاده قرار گرفته است. data sheet ، FAI Packaged ها و ... پیوست در این صورتجلسه می باشد.

۱۴- نتایج آزمون‌ها کاملاً درست پذیرفته شدن و بطور کامل پیوست در صورتجلسه می باشد.

Participants Signature:

امضا حاضرین:

۱۴۰۳/۱۰/۱۷

۱۴۰۳/۱۰/۱۷

۱۴۰۳/۱۰/۱۷

۱۴۰۳/۱۰/۱۷

FORM CODE : MMFO1202	BATTERY CHARGER TEST SHEET		JDEVS
REV : 0	ACCORDING TO IEC62040-3 & IEC 146 STANDARDS		
DATE : 1402/11/11			

PROJECT NAME : South Azadegan Oil Field Development Project Phase I		CALIBRATION CODE :	
INPUT VOLTAGE : 400±10%	BATTERY : 2x100%	x (278 SBM 600)	TAG NO. : BD-20008
OUTPUT VOLTAGE : 360 VDC	OUTPUT CURRENT : 335 ADC		JOB NO. : 401808
INPUT FREQUENCY : 50 HZ	CHARGER NO. : A		CONTRACTOR : Petropars Iran

All the default that do n't specify their's telorance values, with ± 1% tolerance are acceptable

ROUTINE TESTS :	DEFAULT	VALUE	RESULT	REMARK
2KV @ 1 min , BETWEEN AC & DC TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
2KV @ 1 min , BETWEEN AC & EARTH TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
100MΩ > , @ 1 min , BETWEEN AC & DC TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
100MΩ > , @ 1 min , BETWEEN AC & EARTH TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
DEEP DISCHARGE VOLTAGE	278		☒ OK ☐ NOT OK ☐ N.A	
LOW DC VOLTAGE	305.8		☒ OK ☐ NOT OK ☐ N.A	
FREE RUNNING MODE VOLTAGE	...		☐ OK ☐ NOT OK ☐ N.A	
FLOAT MODE VOLTAGE	389.2		☒ OK ☐ NOT OK ☐ N.A	
QUICK (EQUALIZE) MODE VOLTAGE	417		☒ OK ☐ NOT OK ☐ N.A	
INITIAL (COMMISSIONING) MODE VOLTAGE	458.7		☒ OK ☐ NOT OK ☐ N.A	
HIGH DC VOLTAGE	472.6		☒ OK ☐ NOT OK ☐ N.A	
FLOAT TO QUICK MODE VOLTAGE	...		☐ OK ☐ NOT OK ☐ N.A	
INITIAL TO FLOAT MODE VOLTAGE	...		☒ OK ☐ NOT OK ☐ N.A	
QUICK TO FLOAT MODE BY TIMER (HOURS)	8		☒ OK ☐ NOT OK ☐ N.A	
FLOAT TO QUICK MODE BY AC FAULT TIMER (HOURS)	0.5		☒ OK ☐ NOT OK ☐ N.A	
INITIAL TO FLOAT MODE BY TIMER (HOURS)	16		☒ OK ☐ NOT OK ☐ N.A	
CHARGER CURRENT LIMIT(ADC)	335		☒ OK ☐ NOT OK ☐ N.A	
BATTERY CURRENT LIMIT(ADC)	120		☒ OK ☐ NOT OK ☐ N.A	
HIGH TEMPERATURE	T ≥ 90 °C		☐ OK ☐ NOT OK ☐ N.A	
SOFT START	...		☒ OK ☐ NOT OK ☐ N.A	
CHARGE FAIL	347.5		☒ OK ☐ NOT OK ☐ N.A	
AC INPUT FAULT FOR V < (V _{IN} - 10%)	440	357	☒ OK ☐ NOT OK ☐ N.A	
AC INPUT FAULT FOR V > (V _{IN} + 10%)	357	440	☒ OK ☐ NOT OK ☐ N.A	
ALARM & ALARM RESET	...		☒ OK ☐ NOT OK ☐ N.A	
REMOTE & LIGHTING	...		☒ OK ☐ NOT OK ☐ N.A	
METER & LCD	...		☒ OK ☐ NOT OK ☐ N.A	
CONTACTOR & RELAYS	...		☐ OK ☐ NOT OK ☐ N.A	
FAN & THERMOSTAT	T ≥ 70 °C		☒ OK ☐ NOT OK ☐ N.A	
MCBs & MCCBs	...		☒ OK ☐ NOT OK ☐ N.A	
FUSES & TERMINALS	...		☒ OK ☐ NOT OK ☐ N.A	
HEATER & THERMOSTAT	...		☒ OK ☐ NOT OK ☐ N.A	
DC EARTH FAULT (+) & (-)	...		☒ OK ☐ NOT OK ☐ N.A	
OUT. VOLTAGE RIPPLE AT FULL LOAD WITHOUT BATT. (%)	± 2 %		☒ OK ☐ NOT OK ☐ N.A	
AUDIBLE NOISE TEST(dB)	≤ 65		☐ OK ☐ NOT OK ☐ N.A	

73 DB (side)

STAGE	V _{1 IN}	I _{1 IN}	P _{1 IN}	V _{2 IN}	I _{2 IN}	P _{2 IN}	V _{3 IN}	I _{3 IN}	P _{3 IN}	P _T	V _{DC}	I _{DC}	P _{OUT}	η %
0.25In	9													
0.5In														
0.75In														
In	218	257	45.4	221	259	46	220	257	45.20	136.6	389	339	129.4	95%

STAGE	V _{IN}	I _{IN}	P _{IN}	V _{OUT}	I _{OUT}	P _{OUT}	η %
0.25In							
0.5In							
0.75In							
In							

N.A: Not Applicable T: Temperature In: nominal current

TESTED BY :

DATE :

SIGN :

Q.C BY :

DATE :

SIGN :

Converters & Power Supplies Center

{

360VDC

335ADC

95KVA / 110 VAC

13/11/11

}

FORM CODE: MMF01202	BATTERY CHARGER TEST SHEET		JDEVS
REV.: 0	ACCORDING TO IEC62040-3 & IEC 146 STANDARDS		
DATE: 1402/11/11			

PROJECT NAME: South Azadegan Oil Field Development Project Phase I		CALIBRATION CODE:	
INPUT VOLTAGE: 400±10%	BATTERY: 2x100%	x (278 SBM 600)	TAG NO.: BD-20008
OUTPUT VOLTAGE: 360 VDC	OUTPUT CURRENT: 335 ADC		JOB NO.: 401808
INPUT FREQUENCY: 50 HZ	CHARGER NO. (B)		CONTRACTOR: Petropars Iran

All the default that do n't specify their's telorance values, with ± 1% tolerance are acceptable

ROUTINE TESTS:	DEFAULT	VALUE	RESULT	REMARK
2KV @ 1 min., BETWEEN AC & DC TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
2KV @ 1 min., BETWEEN AC & EARTH TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
100MΩ > . @ 1 min., BETWEEN AC & DC TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
100MΩ > . @ 1 min., BETWEEN AC & EARTH TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
DEEP DISCHARGE VOLTAGE	278		☒ OK ☐ NOT OK ☐ N.A	
LOW DC VOLTAGE	305.8		☒ OK ☐ NOT OK ☐ N.A	
FREE RUNNING MODE VOLTAGE	...		☒ OK ☐ NOT OK ☐ N.A	
FLOAT MODE VOLTAGE	389.2		☒ OK ☐ NOT OK ☐ N.A	
QUICK (EQUALIZE) MODE VOLTAGE	417		☒ OK ☐ NOT OK ☐ N.A	
INITIAL (COMMISSIONING) MODE VOLTAGE	458.7		☒ OK ☐ NOT OK ☐ N.A	
HIGH DC VOLTAGE	472.6		☒ OK ☐ NOT OK ☐ N.A	
FLOAT TO QUICK MODE VOLTAGE	...		☒ OK ☐ NOT OK ☐ N.A	
INITIAL TO FLOAT MODE VOLTAGE	...		☒ OK ☐ NOT OK ☐ N.A	
QUICK TO FLOAT MODE BY TIMER (HOURS)	8		☒ OK ☐ NOT OK ☐ N.A	
FLOAT TO QUICK MODE BY AC FAULT TIMER (HOURS)	0.5		☒ OK ☐ NOT OK ☐ N.A	
INITIAL TO FLOAT MODE BY TIMER (HOURS)	16		☒ OK ☐ NOT OK ☐ N.A	
CHARGER CURRENT LIMIT(ADC)	335		☒ OK ☐ NOT OK ☐ N.A	
BATTERY CURRENT LIMIT(ADC)	120		☒ OK ☐ NOT OK ☐ N.A	
HIGH TEMPERATURE	T ≥ 90 °C		☒ OK ☐ NOT OK ☐ N.A	
SOFT START	...		☒ OK ☐ NOT OK ☐ N.A	
CHARGE FAIL	347.5		☒ OK ☐ NOT OK ☐ N.A	
AC INPUT FAULT FOR V < (V _{IN} - 10%)	...	360	☒ OK ☐ NOT OK ☐ N.A	
AC INPUT FAULT FOR V > (V _{IN} + 10%)	...	440	☒ OK ☐ NOT OK ☐ N.A	
ALARM & ALARM RESET	...		☒ OK ☐ NOT OK ☐ N.A	
REMOTE & LIGHTING	...		☒ OK ☐ NOT OK ☐ N.A	
METER & LCD	...		☒ OK ☐ NOT OK ☐ N.A	
CONTACTOR & RELAYS	...		☒ OK ☐ NOT OK ☐ N.A	
FAN & THERMOSTAT	T ≥ 70 °C		☒ OK ☐ NOT OK ☐ N.A	
MCBs & MCCBs	...		☒ OK ☐ NOT OK ☐ N.A	400g
FUSES & TERMINALS	...		☒ OK ☐ NOT OK ☐ N.A	
HEATER & THERMOSTAT	...		☒ OK ☐ NOT OK ☒ N.A	
DC EARTH FAULT (+) & (-)	...		☒ OK ☐ NOT OK ☐ N.A	
OUT VOLTAGE RIPPLE AT FULL LOAD WITHOUT BATT. (%)	± 2 %		☒ OK ☐ NOT OK ☐ N.A	
AUDIBLE NOISE TEST(dB)	≤ 65		☐ OK ☐ NOT OK ☐ N.A	70db

EFFICIENCY & REGULATION TABLE OF CHARGER :

STAGE	V _{1 IN}	I _{1 IN}	P _{1 IN}	V _{2 IN}	I _{2 IN}	P _{2 IN}	V _{3 IN}	I _{3 IN}	P _{3 IN}	P _T	V _{DC}	I _{DC}	P _{OUT}	η %
0.25In														
0.5In														
0.75In														
In	111	105	12.9	111	100	10.4	111	105	10.1		110	111	11.1	111

EFFICIENCY & REGULATION TABLE OF DC/DC CONVERTER/DROPPER DIODES:

STAGE	V _{IN}	I _{IN}	P _{IN}	V _{OUT}	I _{OUT}	P _{OUT}	η %
0.25In							
0.5In							
0.75In							
In							

Abbreviation: N.A: Not Applicable T: Temperature I_N: nominal current

TESTED BY:

DATE:

SIGN:

Q.C BY:

DATE:

SIGN:

Signature

1402/10/14

FORM CODE : MMFO1103	INVERTER-STABILIZER TEST SHEET ACCORDING TO IEC62040-3 & IEC 146 STANDARDS																																																																																																																																
REV. : 0																																																																																																																																	
DATE : 1402/11/11																																																																																																																																	
PROJECT NAME : South Azadegan Oil Field Development Project Phase I																																																																																																																																	
INV. INPUT VOLTAGE : 360 VDC		BYPASS IN VOLTAGE : 400±10%		VAC TAG NO. : BD-20008																																																																																																																													
AC OUTPUT VOLTAGE : 110 VAC		AC OUTPUT CURRENT : 207		AAC JOB NO. : 401,808																																																																																																																													
OUTPUT FREQUENCY : 50 HZ		INVERTER NO. (A)		CONTRACTOR : Petropars Iran																																																																																																																													
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با توجه به میزان بار، تست شده حدود 700 آمپر، بار را به 500 آمپر کاهش دادیم.

موردت ای دی کد .

[Signature]

[Signature]
1403, 10, 10

FORM CODE : MMFO1103	INVERTER-STABILIZER TEST SHEET ACCORDING TO IEC62040-3 & IEC 146 STANDARDS			
REV. : 0				
DATE : 1402/11/11				
PROJECT NAME : South Azadegan Oil Field Development Project Phase I CALIBRATION CODE :				
INV. INPUT VOLTAGE : 360 VDC	BYPASS IN VOLTAGE :	400±10%	VAC	TAG NO. : BD-20008
AC OUTPUT VOLTAGE : 110 VAC	AC OUTPUT CURRENT :	863.6	AAC	JOB NO. : 401,808
OUTPUT FREQUENCY : 50 HZ	INVERTER NO. (B)	CONTRACTOR : Petropars Iran		

All the default that do n't specify their's telorance values, with ± 1% tolerance are acceptable

ROUTINE TESTS :	DEFAULT	VALUE	RESULT	REMARK
2KV @ 1 min , BETWEEN AC & DC TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
2KV @ 1 min , BETWEEN AC & EARTH TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
100MΩ > , @ 1 min , BETWEEN AC & DC TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
100MΩ > , @ 1 min , BETWEEN AC & EARTH TERMINALS	1 min		☒ OK ☐ NOT OK ☐ N.A	
OUTPUT VOLTAGE AT NO LOAD	110		☒ OK ☐ NOT OK ☐ N.A	
OUTPUT FREQUENCY AT NO LOAD	50 HZ		☒ OK ☐ NOT OK ☐ N.A	
LOW DC VOLTAGE	305.8		☒ OK ☐ NOT OK ☐ N.A	
HIGH DC VOLTAGE	458.7		☒ OK ☐ NOT OK ☐ N.A	
HIGH TEMPERATURE	T ≥ 90 °C		☒ OK ☐ NOT OK ☐ N.A	
INVERTER FAULT ALARM	...		☒ OK ☐ NOT OK ☐ N.A	
SYNC. AT In	...		☒ OK ☐ NOT OK ☐ N.A	
INVERTER TO BYPASS TRANSFER	...		☒ OK ☐ NOT OK ☐ N.A	
BYPASS TO INVERTER TRANSFER	...		☒ OK ☐ NOT OK ☐ N.A	
MANUAL TRANSFER	...		☒ OK ☐ NOT OK ☐ N.A	
ALARM & ALARM RESET	...		☒ OK ☐ NOT OK ☐ N.A	
REMOTE & LIGHTING	...		☒ OK ☐ NOT OK ☐ N.A	
METER & LCD	...		☒ OK ☐ NOT OK ☐ N.A	
CONTACTOR & RELAYS	...		☒ OK ☐ NOT OK ☐ N.A	
FAN & THERMOSTAT	T ≥ 70 °C		☒ OK ☐ NOT OK ☐ N.A	
MCBs & MCCBs	...		☒ OK ☐ NOT OK ☐ N.A	Noted
FUSES & TERMINALS	...		☒ OK ☐ NOT OK ☐ N.A	
HEATER & THERMOSTAT	...		☒ OK ☐ NOT OK ☐ N.A	
AC EARTH FAULT	...		☒ OK ☐ NOT OK ☐ N.A	
AUDIBLE NOISE TEST(dB)	≤ 65		☒ OK ☐ NOT OK ☐ N.A	

EFFICIENCY & REGULATION TABLE OF INVERTER :

STAGE	V _{IN}	I _{IN}	P _{IN}	V _{1 OUT}	I _{1 OUT}	P _{1 OUT}	V _{2 OUT}	I _{2 OUT}	P _{2 OUT}	V _{3 OUT}	I _{3 OUT}	P _{3 OUT}	P _T	COS φ	THD %	η %
0.25In																
0.5In																
0.75In																
In	382	227	84	111	717	79.70								1	1.7	
STABILIZER HIGH LIMIT VOLTAGE						+10%			☒ OK ☐ NOT OK ☐ N.A							
STABILIZER LOW LIMIT VOLTAGE						-10%			☒ OK ☐ NOT OK ☐ N.A							
STABILIZER NO LOAD VOLTAGE						±1%			☒ OK ☐ NOT OK ☐ N.A							

EFFICIENCY & REGULATION TABLE OF STABILIZER :

STAGE	V _{1 IN}	I _{1 IN}	P _{1 IN}	V _{12 IN}	I _{12 IN}	P _{12 IN}	V _{12 OUT}	I _{12 OUT}	P _{12 OUT}	V _{2 OUT}	I _{2 OUT}	P _{2 OUT}	V _{3 OUT}	I _{3 OUT}	P _{3 OUT}	P _{TOUT}	COS φ	η %
0.25In																		
0.5In																		
0.75In																		
In	382	119	45.4	382	119	45.4	382	119	45.4	382	119	45.4	382	119	45.4	109	0.9	97

Abbreviation: N/A: Not applicable T: Temperature In: nominal current

TESTED BY :	QC BY :
DATE :	DATE :
SIGN :	SIGN :



Over load test 890 A

[Handwritten signature]

[Handwritten signature]
1402/11/11

FORM CODE : MMFO1103	INVERTER-STABILIZER TEST SHEET		JDEVS														
REV. : 0																	
DATE : 1402/11/11	ACCORDING TO IEC62040-3 & IEC 146 STANDARDS																
PROJECT NAME : South Azadegan Oil Field Development Project Phase I		CALIBRATION CODE :															
INV. INPUT VOLTAGE : 360 VDC	BYPASS IN VOLTAGE : 400±10% VAC	TAG NO. : BD-20007															
AC OUTPUT VOLTAGE : 110 VAC	AC OUTPUT CURRENT : 772.7 AAC	JOB NO. : 401,807															
OUTPUT FREQUENCY : 50 HZ	INVERTER NO. : B 620A	CONTRACTOR : Petropars Iran															
All the default that do n't specify their's telorance values, with ± 1% tolerance are acceptable																	
ROUTINE TESTS :	DEFAULT	VALUE	RESULT														
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FAN & THERMOSTAT	T ≥ 70 °C		☐ OK ☐ NOT OK ☐ N.A														
MCBs & MCCBs	...		☒ OK ☐ NOT OK ☐ N.A														
FUSES & TERMINALS	...		☐ OK ☐ NOT OK ☒ N.A														
HEATER & THERMOSTAT	...		☐ OK ☐ NOT OK ☒ N.A														
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AUDIBLE NOISE TEST(dB)	≤ 65		☐ OK ☐ NOT OK ☐ N.A														
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0.25In																	
0.5In																	
0.75In																	
In	380	194	73,36	111	625	69,53								0,8	1,6		
STABILIZER HIGH LIMIT VOLTAGE				+10%				☐ OK ☐ NOT OK ☐ N.A									
STABILIZER LOW LIMIT VOLTAGE				-10%				☐ OK ☐ NOT OK ☐ N.A									
STABILIZER NO LOAD VOLTAGE				±1%				☐ OK ☐ NOT OK ☐ N.A									
EFFICIENCY & REGULATION TABLE OF STABILIZER :																	
STAGE	V _{1 IN}	I _{1 IN}	V _{2 IN}	I _{2 IN}	V _{3 IN}	I _{3 IN}	P _{T IN}	V _{1 OUT}	I _{1 OUT}	V _{2 OUT}	I _{2 OUT}	V _{3 OUT}	I _{3 OUT}	P _{T OUT}	COS φ	η %	
0.25In																	
0.5In																	
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In																	
Abbreviation: N.A: Not Applicable T: Temperature In: nominal current																	
TESTED BY :								Q.C BY :									
DATE :								DATE :									
SIGN :								SIGN :									



Signature

Signature
13.11.14