

ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA
(A GOVERNMENT OF INDIA UNDERTAKING MINIRATNA COMPANY)
UNDER MINISTRY OF SOCIAL JUSTICE & EMPOWERMENT
AN ISO 9001:2008 COMPANY, G T ROAD, KANPUR- 209217
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ISO 9001: 2008



NOTICE

As per instruction of competent authority, Technical specification for SMPS Battery Charger 24V, 5Amp for charging the 24V,33Ah SMF Batteries (12V, 33Ah 2Nos. connected in series) has been revised and revised specification are appended herewith to this notice.

Suggestions/Comments on the above revised specification, if any, are invited from all the concerned within 7 days from the date of hosting of this Notice on our website for consideration by Corporation.

The observation/objections, if any, may be sent to email: manager_dd@alimco.in latest by 30/08/2018 up to 17.30 Hrs.

MANAGER(DD), ALIMCO, KANPUR

PRODUCT No.	B.O. No.	NOMENCLATURE
TD 2 A 65 Z 16	LK 47	SMPS BATTERY CHARGER FOR 24V, 33Ah, SMF BATTERIES(12V,33Ah - 2 Nos. CONNECTED IN SERIES)

A	INPUT SPECIFICATION:-	
1	NOMINAL VOLTAGE	230V AC, 1PHASE 50Hz
2	OPERATING VOLTAGE RANGE	140 To 275V AC, 1 PHASE 50HZ & CHARGER SHOULD BE ABLE TO SUSTAIN CONTINUOUS VARIATION IN INPUT VOLTAGE FROM 140 V TO 275 V AC
3	FREQUENCY	50±3Hz
4	POWER FACTOR	0.85 Min @ 230V AC
5	EFFICIENCY	> 80%
6	ISOLATION	I/P To O/P : 1.5 KV DC FOR ONE MINUTE I/P To EARTH : 1.5 KV DC FOR ONE MINUTE
7	INPUT PROTECTION	i)- FUSE PROTECTION ii)- VARIATION IN INPUT VOLTAGE:- BELOW 140V & ABOVE 275 V AC
8	TRANSIENT SURGE PROTECTION	YES (VARIESTOR) OR ANY OTHER COMPONENT
9	INDICATION	HIGH/LOW VOLTAGE INDICATION
B	OUTPUT SPECIFICATION:-	
1	PURPOSE	SUITABLE FOR CHARGING OF 24V 33Ah SMF BATTERIES (12V 33Ah SMF BATTERIES - 2 Nos. CONNECTED IN SERIES)
2	CHARGING VOLTAGE	28.0 V DC MAXIMUM
3	OUTPUT CURRENT	5.0 Amp (MAX)
4	RIPPLE	< 1% PK - PK MAXIMUM OUTPUT VOLTAGE
5	LINE REGULATION	< +/- 1%
6	LOAD REGULATION	< +/- 1%
7	PROTECTION	I - O/P OVER VOLTAGE II - OVER LOAD III - SHORT CIRCUIT IV - BATTERY BLOCKING V - BATTERY REVERSE
8	INDICATION	I- BATTERY CHARGING II- BATTERY FULL CHARGE
C	ENVIRONMENTAL SPECIFICATIONS:	
1	OPERATING AMBIENT TEMPERATURE RANGE	- 10 to 55°C
2	OPERATING RELATIVE HUMIDITY REQUIREMENT	AT LEAST 90% RH (NON CONDENSING) AT 25°C
3	COOLING	NATURAL / FORCED AIR COOLING

D	MECHANICAL TEST REQUIREMENT	
1	MECHANICAL SHOCK AND VIBRATION TEST	UP TO 2G.
E	CABLE AND CONNECTOR SPECIFICATION	
1	INPUT SIDE	3 - PIN PLUG TOP OF AT LEAST 6 AMP RATING WITH 3 CORE COPPER CABLE LENGTH AT LEAST 2 METER.
2	OUTPUT SIDE	3- PIN IEC C14 MALE CONNECTOR OF AT LEAST 6 AMP CURRENT RATING WITH 1 METER LENGTH CABLE (EXCLUDING CONNECTOR) OF CROSS SECTIONAL AREA 1.5 SQ. mm, ISI MARKED, IS:694.
F	GENERAL REQUIREMENT	
<p>I- CURRENT & VOLTAGE RATING SAFETY FACTOR SHALL BE AT LEAST 1.5 TIMES FOR POWER SEMICONDUCTOR DEVICES.</p> <p>II- MANUFACTURER SHOULD INCLUDE CYCLE BY CYCLE PRIMARY CURRENT PROTECTION TO PREVENT POTENTIAL DAMAGE.</p> <p>III- COMPLETE COVER SHALL BE GOOD QUALITY NON CONDUCTING / NON CONDUCTING COATED AND NON-BREAKABLE MATERIAL AND ALL THE LIVE PART SHALL BE COVERED TO PROVIDE PROTECTION AGAINST ELECTRIC SHOCK.</p> <p>IV- BILINGUAL (HINDI & ENGLISH) OPERATION MANUAL WITH EACH BATTERY CHARGER</p> <p>V- PACKING SHALL BE INDIVIDUAL AND ABLE TO WITHSTAND/ SUSTAIN DURING TRANSPORTATION WITHOUT ANY DAMAGE TO CHARGER (PREFERABLE IN CORRUGATED BOX WITH THERMOCOL SIDE SUPPORT OR ANY BETTER MATERIAL SIDE SUPPORT TO AVOID DAMAGES)</p> <p>VI- MANUFACTURER SHALL PROVIDE THEIR OWN DETAIL ON THE TOP OR BOTTOM OF PRODUCT FOR IDENTIFICATION PURPOSE INCLUDING SERIAL No., DATE, MONTH AND YEAR OF MANUFACTURING.</p>		
G	WARRANTY:-	
WARRANTY OF 12 MONTHS FROM DATE OF RECEIPT OF MATERIAL SHALL BE PROVIDED BY MANUFACTURER.		

1	SECTION - A MODIFIED	08.08.18	
SNo.	REGION	REVISION	DATE SIGN
REVISIONS			
ARTIFICIAL LIMBS MANUFACTURING CORPORATION OF INDIA KANPUR			
DGN	NOM	INDICATED	
DRN	MTL	_____	
CHD	HEAT	_____	
DIM	TREATMENT	_____	
SCALE	SURFACE TREATMENT	_____	
APP	DRG No:-	INDICATED	REV SHEET 1 OF 1
DATE	24.11.2017		