

## **TECHNICAL DATA**

## LION 100 48V/165A BATTERY CHARGERS

## STATED DATA ACCORDING TO MICROPOWER STANDARD

Part number	LS4554
Model	LION 100
Туре	48V/165A
MAINS DATA (50/60HZ)	
Output Voltage [V]	48
Output Current [A]	165
Number of phases	3
Rated Voltage range [V]	440-440
Current at nominal voltage [A]	14.3
Recommended supply fuse [A]	16
Supply cable area	4x2,5 mm2
Supply cable length [m]	3
Typical Supply Connector	CEE16
Output cable cross-section	50 mm2
BATTERY CONNECTION	
Output cable cross-section	50 mm2
Output cable terminals (in unit)	M8
Output cable length [m]	3
Typical Output connector	DIN320
Output Voltage [V]	48
ELECTRIC DATA	
Standby Power Consumption [W]	< 10
Power Consumption [W]	10336
Apparent Power Consumption [VA]	10880

Interaction of trippione of class [A]BOutor trippione of class [A]SBresser to class and no class [A]SBresser to class and no class [A]SBresser to class and no class [A]SAmbert to preator to class and no class [A]SAmbert to preator to class [A]SAmbert to preator to class and no cla	Power Factor	0.95
Fileizery (at rated power and on cables) [%]         Bil           PROPERTIES         P20           Ingress protection         P20           Ambient tempersture range (at full output power) [deg C]         50           Colling         Connection           Start Circuit Protection         Generction           Start Circuit Protection         Fes           Childen Type         All           Childen Type         Signer Type           Charden Type         Signer Type	Inrush current, do not tripp fuse of class [A]	В
PROPERTIES     Ingress protection     Ingreserves     Ingreserves     Ingress protection     Ingress protect	Output Ripple	<5
lagress protectionJP20Annionat temperature range (at full output power) [deg C]-5 to 400Annionat temp (with reduced output power) [deg C]GoveretionCoolingConvectionStart Circuit ProtectionFuseMinor polarity ProtectionFuseCationat TypeAll ConvectionCationat TypeColorableMillColorableMillColorableMill CanagesSy / Div / Sy / PJ / DERadio CommunicationNoCationationationationNoCationationationNoCationationationationNoCationationationationNoCationationationationNoCationationationationNoCationationationationNoCationationationationNoCationationationationNoCationationationationNoCati	Efficiency (at rated power and no cables) [%]	93
Ambient temperature range (at full output power) [deg C]         50 te 40           Ambient temperature range (at full output power) [deg C]         50           Cooling         Convection           Cooling         Convection           Short Circuit Protection         Yes           Wang Polarity Protection         Inse           Cortifications         Ambient temperature range (at full output power) [deg C]           Mile Circuit Protection         Yes           Control Circuit Protection         Na           Control Circuit Protection         Ambient temperature range (at full output power) [deg C]           Control Circuit Protection         Yes           Control Circuit Protection         Na           Control Circuit Protection         Store Polarity           Multanguage         Yes           Reporting         Yes           Reporting         Na           Colorandication         No           Urbards         Yes           Colorandication         Na           Colorandication         Na           Colorandication         Na           Colorandication         Na           Colorandication         Na           Colorandication         Na           Colorandication	PROPERTIES	
Anbient max temp (with reduced output power) [deg C]         50           Cooling         Convection           Stort Circuit Protection         Ves           Wrong Polarity Protection         Isse           Cabinet Type         Al8           Cabinet Type         DE           International         Isse           Reprint Protection         ED           HM         DE           International         IS           HI anguage         SV / FM / ES / FM / ES           Reprinting         Ves           Reprinting         Na           Reprinting         Ves           Reprinting	Ingress protection	IP20
CoolingConvectionShort Grout ProtectionYesWrong Polarity ProtectionFuseCabinet TypeAl8CartificationsCHufLED JusplayMill LanguageSV / EN / ES / PT / DERadio CommunicationNoCharging Curve SetN/ALiVosCurdicationsYesCurdicationsYesCurdicationsNoCurdicationNoCharging Curve SetVosLiVosCurdicationNoCurdicationNoCurdicationYesCurdicationYesCurdicationNoCurdicationNoCurdicationNoCurdicationNoCurdicationYesCurdicationYesCurdicationNoCurdicationNoCurdicationNoCurdicationNoCurdicationNoCurdicationYesCurdicationYesCurdicationYesCurdicationYesCurdicationYesCurdicationYesCurdicationYesCurdicationYesCurdicationYesCurdicationYesCurdicationYesCurdicationSecondCurdicationSecondCurdicationSecondCurdicationSecondCurdicationSecondCurdicationSecond <td< td=""><td>Ambient temperature range (at full output power) [deg C]</td><td>-5 to +40</td></td<>	Ambient temperature range (at full output power) [deg C]	-5 to +40
Sher Circuit Protection         Yes           Wrong Polarity Protection         Fuse           Cabinet Type         Al8           Cabinet Type         Defendence           Chritications         E           HM         ED / Display           HM Langnage         SV / EM / ES / PT / DE           Reporting         Yes           Radio Communication         NA           I/C-cards         NA           I/C-cards         Ves           I/L         No           CL         Na           I/L	Ambient max temp (with reduced output power) [deg C]	50
Wrong Polarity Protection         Fuse           Cabinet Type         Al8           Cartifications         El / Display           Cartifications         El / Display           HMI         Display           HMI Anguage         SV / EN / ES / PT / DE           Reporting         Vision           Reporting         Vision           Radio Communication         No           D'orards         Via           Clarging Curve Set         Via           L/Coards         Via           CL         Via           D'de Carding         Via           Regeneration         No           Clarging Curve Set         Via           L/Coards         Via           Clarging Curve Set         Via           L/Coards         Via           Clarging Curve Set         Via           L/L         Via           Clarging Curve Set         Via           L/L         Via           L/L <td>Cooling</td> <td>Convection</td>	Cooling	Convection
Cabinet Type         Al8           Cartifications         GE           Dertifications         LED / Display           HMI Language         SV / EN / ES / PT / DE           Reporting         Ves           Radio Communication         No           I/D-cards         N/A           I/C-cards         Yes           I/L         No           LL         No           LL         No           CE         Yes           I/L         No           I/L         No           LL         Stars capah/Sh           Might excl. cables [kg]         Stars capah/Sh	Short Circuit Protection	Yes
Certifications     CE       HMI     LED / Display       HMI Language     SV / EN / ES / PT / DE       Reporting     Ves       Radio Communication     No       Charging Curve Set     NA       /C-cards     Ves       CE     Ves       CL     Ves       CL <t< td=""><td>Wrong Polarity Protection</td><td>Fuse</td></t<>	Wrong Polarity Protection	Fuse
HMI Language ED Jupping     HMI Language SV FN / ES / PT / DE     Reporting Yes     Reporting Yes     Road Communication N/A     Charging Curve Set N/A     Vo     Charging Curve Set V/A     Vo     Vo	Cabinet Type	A18
HM Language       SV / EN / ES / PT / DE         Reporting       Yes         Radio Communication       No         Charging Curve Set       N/A         1/0-cards       Yes         CE       Yes         UL       No <b>CHARGING TIMES</b> F Hours cap.ah/Sh       Yes         10 Hours cap.ah/Sh       Yes         12 Hours cap.ah/Sh       Yes         12 Hours cap.ah/Sh       Yes         12 Hours cap.ah/Sh       Yes         Yes       Yes         13 Hours cap.ah/Sh       Yes         Yes       Yes	Certifications	CE
Reporting       Yes         Radio Communication       No         Charging Curve Set       N/A         //O-cards       Yes         CE       Yes         UL       No         CHARGING TIMES         6 Hours cap.ah/5h       S         10 Hours cap.ah/5h       S         12 Hours cap.ah/5h       S         12 Hours cap.ah/5h       S         12 Hours cap.ah/5h       S         PARGER DIMENSIONS       S         Weight text. cables [kg]       16         Weight text. cables [kg]       20	НМІ	LED / Display
Radio CommunicationNoCharging Curve SetN/AI/O-cardsYesCEYesULNoCHARGING TIMES6 Hours cap.ah/5h-10 Hours cap.ah/5h-10 Hours cap.ah/5h-10 Hours cap.ah/5h-10 Hours cap.ah/5h-12 Hours cap.ah/5h-10 Hours cap.ah/5h-11 Hours cap.ah/5h-12 Hours cap.ah/5h-13 Hours cap.ah/5h-14 Hours cap.ah/5h-14 Hours cap.ah/5h-15 Hours cap.ah/5h-16 Hours cap.ah/5h- <tr< td=""><td>HMI Language</td><td>SV / EN / ES / PT / DE</td></tr<>	HMI Language	SV / EN / ES / PT / DE
Charging Curve Set       N/A         I/O-cards       Yes         CE       Yes         UL       No         CHARGING TIMES         6 Hours cap.ah/5h       -         10 Hours cap.ah/5h       -         10 Hours cap.ah/5h       -         12 Hours cap.ah/5h       -         12 Hours cap.ah/5h       -         12 Hours cap.ah/5h       -         12 Hours cap.ah/5h       -         14 Uhurs cap.ah/5h       -         14 Uhurs cap.ah/5h       -         15 Hours cap.ah/5h       -         16 Hours cap.ah/5h       -         17 Hours cap.ah/5h       -         18 Uhurs cap.ah/5h       -         19 Hours cap.ah/5h       -         10 Hours cap.ah/5h       -         10 Hours cap.ah/5h       -         Utip text. cables [kg]       16         Yeight text. cables [kg]       20	Reporting	Yes
I/O-cardsYesCEVesULNoCHARGING TIMES6 Hours cap.ah/5h-8 Hours cap.ah/5h-10 Hours cap.ah/5h-12 Hours cap.ah/5h-12 Hours cap.ah/5h-CHARGER DIMENSIONS-Weight excl. cables [kg]16Veight incl. cables [kg]20	Radio Communication	No
CE       Yes         UL       No         CHARGING TIMES         G Hours cap.ah/5h       -         8 Hours cap.ah/5h       -         10 Hours cap.ah/5h       -         10 Hours cap.ah/5h       -         12 Hours cap.ah/5h       -         13 Hours cap.ah/5h       -         14 Hours cap.ah/5h       -         13 Hours cap.ah/5h       -         14 Hours cap.ah/5h       -         14 Hours cap.ah/5h       -         15 Hours cap.ah/5h       -         16 Hours cap.ah/5h       -         17 Hours cap.ah/5h       -         18 Hours cap.ah/5h       -         19 Hours cap.ah/5h	Charging Curve Set	N/A
ULNoCHARGING TIMES6 Hours capah/5h-8 Hours capah/5h-10 Hours capah/5h-12 Hours capah/5h-CHARGER DIMENSIONSVeight excl. cables [kg]160-9-<	I/O-cards	Yes
CHARGING TIMES6 Hours cap.ah/5h8 Hours cap.ah/5h10 Hours cap.ah/5h12 Hours cap.ah/5hCHARGER DIMENSIONSWeight excl. cables [kg]16	CE	Yes
6 Hours cap.ah/5h 8 Hours cap.ah/5h 10 Hours cap.ah/5h 12 Hours cap.ah/5h CHARGER DIMENSIONS Weight excl. cables [kg] 16 Weight incl. cables [kg] 20	UL	No
8 Hours cap.ah/5h 10 Hours cap.ah/5h 12 Hours cap.ah/5h CHARGER DIMENSIONS Weight excl. cables [kg] 16 Weight incl. cables [kg] 20	CHARGING TIMES	
10 Hours cap.ah/5h 12 Hours cap.ah/5h CHARGER DIMENSIONS Weight excl. cables [kg] 16 Weight incl. cables [kg] 20	6 Hours cap.ah/5h	
12 Hours cap.ah/5h         CHARGER DIMENSIONS         Weight excl. cables [kg]       16         Weight incl. cables [kg]       20	8 Hours cap.ah/5h	
CHARGER DIMENSIONS         Weight excl. cables [kg]       16         Weight incl. cables [kg]       20	10 Hours cap.ah/5h	
Weight excl. cables [kg]     16       Weight incl. cables [kg]     20	12 Hours cap.ah/5h	
Weight incl. cables [kg]     20	CHARGER DIMENSIONS	
	Weight excl. cables [kg]	16
Outer Dimensions Height [mm] 529	Weight incl. cables [kg]	20
	Outer Dimensions Height [mm]	529

Outer Dimensions Width [mm]	256
Outer Dimensions Depth [mm]	244
Min Spacing Required	Se User Manual
SHIPPING DIMENSIONS	
Shipping Weight [kg]	23
Box Height [mm]	650
Box Width [mm]	370
Box Depth [mm]	440
CHARGING	
Charging Ionic	0
Charging Standard	0
Charging Gel	0
Charging Li-Ion	0
Charging AGM	0
Moisture Resistance	No
Dusty Environment	No
Outdoor use	No
Cold store	No
Tropical	No

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