

## **TECHNICAL DATA**

## MICROPOWER SL180 PB 48V/320A BATTERY CHARGERS

## STATED DATA ACCORDING TO MICROPOWER STANDARD

Family	Micropower SL180
DC Rating	48V/320A
Part number	DB4789
Model code	1A5B203
Part status	Released
SUPPLY	
Number of phases	3
Rated Voltage range [V]	380-440
Nominal Voltage [V]	400
Rated frequency [Hz]	50-60
Current at nominal voltage [A]	29,7
Current at min rated voltage [A]	31,1
Current at max rated voltage [A]	27
Recommended supply fuse class	С
Recommended RCCB class	В
Supply cable area	4x6 mm2
Supply cable length [m]	?2,5
Typical Supply Connector	CEE32
Standby Power Consumption [W]	<3,5
Power Consumption [W]	19638
Apparent Power Consumption [VA]	20542
Power Factor	0,96
Leakage current [mA]	<3,5
Efficiency (at rated power and no cables) [%]	95

Control     Fuse       Reversed polarity protection     Fuse       Short Diracit Protection     Yes.       Onlput Voltage [V]     48       Output Correct [A]     320       Dirput cable rows-section     4/0 AVMG       Output cable rows-section     3       Output cable terminals (in unit)     18       Typical Output connector     DINS20       Output nase, rating [A/VDC]     2:200A/ISOV0G       Output nase, rating [A/VDC]     2:200A/ISOV0G       Output nase, rating [A/VDC]     2:200A/ISOV0G       Dutput nase, rating [A/VDC]     2:200A/ISOV0G       Dutput nase, rating [A/VDC]     2:200A/ISOV0G       Mainent temperature range (af till output power] [dgg C]     51 + 40       Ambient temperature range (af till output power] [dgg C]     50       Ambient temperature range (af till output power] [dgg C]     50       Ambient temperature range (af till output power] [dgg C]     60       Ambient temperature range (af till output power] [dgg C]     60       Ambient temperature range (af till output power] [dgg C]     60       Calinary     60     60       Calinary     60     60 </th <th>OUTPUT DATA</th> <th></th>	OUTPUT DATA	
Short Circuit Protection     Yes       Dadpat Voltage [V]     48       Dadpat Carrent [A]     320       Output cable cress-section     4/0 AWG       Output cable length [m]     3       Output cable terminals [n unit]     M8       Typical Output connector     DIN320       Dutput cable terminals [n unit]     BM320       Dutput cable terminals [n unit]     Rast Semiconductor fuse       PROPERTIES     Fast Semiconductor fuse       Ingress protection     P21       Ambient max term [vith reduced output power] [deg 0]     So to 400 re000re00       Ambient max term [vith reduced output power] [deg 0]     So to 400 re001/000h       Ambient transge (at full output power] [deg 0]     Gold to enderstein       Coling     Convection       Coling     Convection       Colong     Convection       Colong     E2       Colong     E2       Colong     E2       Colong     E2       Colong     E2       Colong     Kertinations       Colong     Kertination       Colong     Keretin intrafae<		Euco
darpat Voltage [V]     48     Addpet Current [A]     20     Addpet Current [A]     20     Addpet cable corrents section     Addpet cable corrents      PCOPERTIES     Addpet cable corrents correct     Addpet cable corrents correct     Addpet cable corrents correct     Addpet cable     Addpet cable correct     Addpet cable     Addpet cable correct     Addpet cable     Addpet     Addpet     Addpet cable		
Output Cubit cabit cross-section     320       Durtput cabit cross-section     4/0 AWG       Output cabit cross-section     3       Output cabit cross-section     M8       Output cabit cross-section     DN320       Output files-rating (A/VDG)     2x200A/TSOVDC       Durtput cabit tromperatures range (at full output power) (deg C)     Fast Semiconductor fuse       Ambient transport tromperatures (D)     40 to +30/1000h       Ansitent transport tromperatures (D)     40 to +30/1000h       Maximum operating altitude [m]     2000       Cooling     Convection       Cabinet Type     B2       Coling     Convection       Cadid connection     Yes       Coling Conve Set     Multiple Lead       Coling Conve Set     Multiple Lead       Charging Curve Set     Multiple Lead       Charging Curve Set     Yes       Radia comm		
Output cable cross-section     4/0 AWG       Dutput cable length (m)     3       Output cable terminals (in unit)     M8       Typical Output connector     DHX20       Output fiss, rating (AVDG)     2:200A/150VDC       Output fiss, rating (AVDG)     5:8       Output fiss, rating (AVDG)     5:8       Ambient starge and transport temperature [0]     -5:1:8       Maximum operating allitude [m]     2:0:0:0       Galing     Conford       Coloid cancetion     Cancetion       Calinet Type     E:2       Claud cancetion     Ves       Uo-cards     Remote Start/Stop       Roporti	Output Voltage [V]	48
Output cable length (m)     3       Output cable terminals (in unit)     M8       Typical Output connector     DINS20       Output tase, rating [AV/DC]     2x200A/150V0C       Output tase type     Fast Semiconductor fuse       PROPERTIES     IP21       Ingress protection     IP21       Ambient temperature range (at full output power) [deg C]     50       Ambient starage and fransport temperature [C]     40 to +80/1000h       Maximum operating altitude [m]     2000       Coling     Convection       Coling     Convection       Claud connection     Ves       Output set tareage     LED/Display       Claud connection     Ves       Clau	Output Current [A]	320
Dutput cable terminals (in unit)     M8       Typical Dutput connector     DIN320       Output tuse, rating (AVDG)     2x200A/150VDG       Dutput tuse type     Fast Semiconductor fuse       PROPERTIES     IP21       Ingress protection     IP21       Ambient temperature range (at full output power) [deg C]     50       Ambient temperature range (at full output power) [deg C]     50       Ambient storage and transport temperature [C]     40 to -80/1000h       Maximum querating altitude [m]     2000       Cooling     Canvection       Cardination     Cardection       Citifications     CE       Citifications     CE       Citifications     LED/Display       Charging Carve Set     Multiple Lead       I/O-cards     Remune Start/Stop       Reporting     Yes	Output cable cross-section	4/0 AWG
Typical Dutput connector     DIN320       Output fuse, rating (A/VDC)     2x200A/TSOVDC       Output fuse type     Fast Semiconductor fuse       PROPERTIES     IP21       Ingress protection     IP21       Ambient temperature range (at full output power) [deg C]     5 to 440       Ambient temperature range (at full output power) [deg C]     50       Ambient storage and transport temperature [C]     40 to +80/1000h       Maximum operating altitude [m]     2000       Maximum operating altitude [m]     90       Cooling     Convection       Cabinet Type     E2       Certifications     Certifications       User interface     IED/Display       Uro sot     Multiple Lead       I/O - aards     Renote Start/Stop       Reporting     Yes	Output cable length [m]	3
Output tisse, rating [A/VDC]     2x200A/150VDC       Output tisse type     Fast Semiconductor fuse       PROPERTIES     Interest Semiconductor fuse       Ingress protection     IP21       Ambient temperature range (at full output power) [deg C]     -5 to -40       Ambient storage and transport temperature [C]     -40 to +80/1000h       Maximum operating altitude [m]     2000       Maximum operating altitude [m]     2000       Cooling     Convection       Catinet Type     E2       Coling     Convection       Clainet Type     E2       Clainet Type     Femotestart/Stop       Clainet Type     Femotestart/Stop       Clainet Type     Femotestart/Stop       Clainet Type     Yes       Clainet Type <t< td=""><td>Output cable terminals (in unit)</td><td>M8</td></t<>	Output cable terminals (in unit)	M8
Output fuse type     Fast Semiconductor fuse       PROPERTIES       Ingress protection     IP21       Anbient temperature range (at full output power) [deg C]     -5 to +40       Ambient max temp (with reduced output power) [deg C]     50       Ambient storage and transport temperature [C]     -40 to +80/1000h       Maximum operating altitude [m]     2000       Maximum humidity, non-condensing [%rh]     90       Cooling     Convection       Cabinet Type     B2       Certifications     CE       Cloud connection     Yes       User interface     LED/Display       I/O-cards     Remote Start/Stop       Reporting     Yes       Radio communication     Yes	Typical Output connector	DIN320
PROPERTIES       Ingress protection     IP21       Ambient temperature range (at full output power) [deg C]     -5 to +40       Ambient max temp (with reduced output power) [deg C]     50       Ambient max temp (with reduced output power) [deg C]     -40 to +80/1000h       Maximum operating altitude [m]     2000       Maximum numidity, non-condensing [%rh]     90       Cooling     Convection       Cabinet Type     B2       Certifications     CE       Cloud connection     Yes       User interface     LED/Display       I/O-cards     Remote Start/Stop       Radio communication     Yes       Radio communication     Yes	Output fuse, rating [A/VDC]	2x200A/150VDC
Ingress protection     IP21       Ambient temperature range (at full output power) [deg C]     -5 to -40       Ambient max temp (with reduced output power) [deg C]     50       Ambient storage and transport temperature [C]     -40 to +80/1000h       Maximum operating altitude [m]     2000       Maximum numidity, non-condensing [%rh]     90       Cooling     Convection       Cabinet Type     E2       Cloud connection     Ves       User interface     LED/Display       Charging Curve Set     Multiple Lead       I/O cards     Renote Start/Stop       Radio communication     Yes       Radio communication     Yes	Output fuse type	Fast Semiconductor fuse
Anbient temperature range (at full output power) [deg C]   -5 to +40     Anbient max temp (with reduced output power) [deg C]   50     Anbient storage and transport temperature [C]   -40 to +80/1000h     Maximum operating altitude [m]   2000     Maximum humidity, non-condensing [%orh]   90     Cooling   Convection     Cabinet Type   B2     Certifications   CE     Cloud connection   Yes     User interface   LED/Display     I/O-cards   Remote Start/Stop     Reporting   Yes     Radio communication   Yes     Reduce EDIMENSIONS   Yes	PROPERTIES	
Anbient max temp (with reduced output power) [deg C]50Anbient storage and transport temperature [C]-40 to +80/1000hMaximum operating altitude [m]2000Maximum humidity, non-condensing [%rh]90CoolingConvectionColone TypeB2CertificationsCECloud connectionYesUser interfaceLED/DisplayCharging Curve SetMultiple LeadI/O-cardsRemote Start/StopReportingYesRadio communicationYesCHARGER DIMENSIONSC	Ingress protection	IP21
Ambient storage and transport temperature [C]-40 to +80/1000hMaximum operating altitude [m]2000Maximum humidity, non-condensing [%rh]90CoolingConvectionCabinet Type82Cabinet Type62CertificationsCECloud connectionYesUser interfaceLED/DisplayCharging Curve SetMultiple LeadI/O-cardsRemote Start/StopRadio communicationYesCHARGER DIMENSIONSCHARGER DIMENSIONS	Ambient temperature range (at full output power) [deg C]	-5 to +40
Maximum operating altitude [m]   2000     Maximum humidity, non-condensing [%rh]   90     Cooling   Convection     Cabinet Type   B2     Certifications   CE     Cloud connection   Yes     User interface   LED/Display     Charging Curve Set   Multiple Lead     I/O-cards   Remote Start/Stop     Radio communication   Yes	Ambient max temp (with reduced output power) [deg C]	50
Maximum humidity, non-condensing [%rh]90CoolingConvectionCabinet TypeB2CertificationsCECloud connectionYesUser interfaceLED/DisplayCharging Curve SetMultiple LeadI/O-cardsRemote Start/StopReportingYesCHARGER DIMENSIONSYes	Ambient storage and transport temperature [C]	-40 to +80/1000h
CoolingConvectionCabinet TypeB2CertificationsCECloud connectionYesUser interfaceLED/DisplayCharging Curve SetMultiple LeadI/O-cardsRemote Start/StopReportingYesRadio communicationYesCHARGER DIMENSIONSHermen Start/Stop	Maximum operating altitude [m]	2000
Cabinet TypeB2CertificationsCECloud connectionYesUser interfaceLED/DisplayCharging Curve SetMultiple LeadI/O-cardsRemote Start/StopReportingYesRadio communicationYesCHARGER DIMENSIONSHende Start/Stop	Maximum humidity, non-condensing [%rh]	90
CertificationsCECloud connectionYesUser interfaceLED/DisplayCharging Curve SetMultiple LeadI/O-cardsRemote Start/StopReportingYesRadio communicationYesCHARGER DIMENSIONSHernore Start/Stop	Cooling	Convection
Cloud connectionYesUser interfaceLED/DisplayCharging Curve SetMultiple LeadI/O-cardsRemote Start/StopReportingYesRadio communicationYesCHARGER DIMENSIONSYes	Cabinet Type	B2
User interfaceLED/DisplayCharging Curve SetMultiple LeadI/O-cardsRemote Start/StopReportingYesRadio communicationYesCHARGER DIMENSIONS	Certifications	CE
Charging Curve SetMultiple LeadI/O-cardsRemote Start/StopReportingYesRadio communicationYesCHARGER DIMENSIONS	Cloud connection	Yes
I/O-cardsRemote Start/StopReportingYesRadio communicationYesCHARGER DIMENSIONSYes	User interface	LED/Display
Reporting Yes   Radio communication Yes   CHARGER DIMENSIONS Yes	Charging Curve Set	Multiple Lead
Radio communication Yes   CHARGER DIMENSIONS Yes	I/O-cards	Remote Start/Stop
CHARGER DIMENSIONS	Reporting	Yes
	Radio communication	Yes
Weight excl. cables [kg] 42	CHARGER DIMENSIONS	
	Weight excl. cables [kg]	42
Charger dimensions [mm] 410x533x515	Charger dimensions [mm]	410x533x515

SHIPPING DIMENSIONS	
Box dimensions [mm]	560x800x600
Shipping Weight [kg]	64

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