

## Power Supply Emparro20-Pro-1-phase

In: 100 - 240 VAC / 100 - 230 VDC; OUT: 42 - 56 V/10ADC

The single-phase DIN rail power supplies of the Emparro20-Pro series offer even more functions than the Emparro. With the optional IO-Link adapter, the switching power supply can be controlled and monitored remotely, which enables comprehensive integration into your control system. In addition, these power supplies have integrated electronic load circuit monitoring, which means that external line protection on the DC side is no longer required. This not only reduces the installation effort, but also increases the reliability of the power supply. Emparro20-Pro also gives you access to extensive diagnostic information to minimize disruptions and downtime and maximize the efficiency of your application.

## **Link to Product**

## Illustration



Product may differ from Image









Electrical data	
Number of devices parallel connection max.	2
Number of devices series connection max.	1
Parallel connection	yes
Series connection	yes
Security level	SELV/PELV
Electrical data   Supply	
Power frequency	50/60 Hz
Electrical data   Input	
Input current at input voltage 2 DC	2,2 A
Input current at input voltage 1 DC	5,2 A
Input voltage 1 AC	100 V
Input voltage 1 DC	100 V
Input voltage 2 AC	240 V
Input voltage 2 DC	230 V
Input voltage AC min.	90 V
Input voltage AC max.	264 V
Input voltage DC min.	90 V
Input voltage DC max.	250 V



stay connected

Empire mail and protection   Section   Secti	Input current at input voltage 1 AC	5,3 A	
Phase number input         2           Efficiency         33.5 % @ 115 V AC, 95.5 % @ 239 V AC           Efficiency (allan)         40 W           Output voltage DC         49 V           Output voltage DC min.         42 V           Output voltage DC max.         56 V           Output voltage DC max.         10 A           Duration Power Boost min.         5 a           Robole (s s) max.         10 mV           Splike (s s) max.         110 mV           Diagnostics         Name contact           Aum contact         yes           Installation   Connection         Push-In spring clamp terminals           Device procedion   Effectrical         Installation Processor (Effectrical Processor)           Installation leight max. ASL         5000 m           Degree of protection (EN IEC 05259)         IP20           Protection case IEC EG 1140)         1           Overland protection output         yes           Pollation Degree         2           Short-circuit protection output         yes           Device protection Mechanical         Vex           Cooling bye         Natural convection           Michanical data   Material data         Vex           Confusion play to the counting type         N			
Electrical data   Output			
Output rating         480 W           Output voltage DC min.         42 Y           Output voltage DC min.         42 Y           Output voltage DC min.         56 Y           Output voltage DC min.         10 A           Duration Power Boost min.         5 s           Rippie (e.s.) max.         10 mV           Design Desi	<u> </u>	93,5 % @ 115 V AC, 95,5 % @ 230 V AC	
Output rating         480 W           Output voltage DC min.         42 Y           Output voltage DC min.         42 Y           Output voltage DC min.         56 Y           Output voltage DC min.         10 A           Duration Power Boost min.         5 s           Rippie (e.s.) max.         10 mV           Design Desi	Electrical data   Output		
Output voltage DC         48 V           Output voltage DC min.         42 V           Output voltage DC max.         56 V           Output voltage DC max.         10 A           Output current         10 A           Duration Power Boost min.         5 s           Rippie (s-s) max.         10 mV           Barrent Contact         yes           Institution   Connection         Ves           Institution   Connection         Vest in spring clamp torminate           Device protection   Electrical         Vest in spring clamp torminate           Installation height max. ASL         5000 m           Degree of protection (EN EC 60529)         1P20           Protection class (EN EC 61492)         1P20           Postitution Congresi		480 W	
Output voltage DC min.         42 V           Output voltage DC max.         56 V           Output voltage DC min.         5 s           Output voltage DC min.         5 s           Pagible (s s) max.         10 mV           Spikes (s s) max.         110 mV           Diagnostics           Askam contact           Vestiliation I Connection           Connection           Device protection I Electrical           Installation I Connection           Connection (Electrical)           Installation I Connection (Electrical)           Installation I Electrical           Installation Installation I Electrical <td col<="" td=""><td></td><td></td></td>	<td></td> <td></td>		
Output clarrent         10 A           Output clarrent         10 A           Duration Power Boost min.         5 s           Rippide (s-s) max.         10 mV           Diagnostics           Alarm contact         yes           Installation   Connection         Push-in spring clamp terminals           Connection         Push-in spring clamp terminals           Device protection   Electrical         Installation   Electrical           Installation   Electrical         Installation   Electrical           Installation   Electrical         Installation   Electrical           Installation   Electrical         Installation   Electrical           Installation   Electrical         Installation   Electrical           Protection class (EN IEC 61140)         I           Overload protection output         yes           Poetic protection   Mechanical         2           Short-cauli protection   Mechanical         Verload           Conting type         Natural convection           Mechanical data   Material data         V-0           Controlationality class housing (ULS4)         V-0           Controlationality class housing (ULS4)         V-0           Controlational for   Mechanical data   Munimium, Stainless steel         Munimium, Stainless steel      <			
Outpate outrement         10 A           Duration Power Boast min.         5 s           Rippide (s-s) max.         10 mV           Spikes (s-s) max.         110 mV           Diagnostice		56 V	
Duration Power Boost min.         5 s           Rippie (s-s) max.         10 mV           Diagnostics         Very Control of Management		10 A	
Spikes (s-s) max.         110 mV           Diagnostics         Ves           Connection (connection)         Push-In spring clamp terminals           Device protection   Electrical         Installation height max. ASL         500 m           Dagree of protection (EN IEC 680529)         IP20           Protection class (EN IEC 61140)         I           Overload protection output         yes           Pollution Dagree         2           Short-circuit protection output         yes           Overleap Perature protection output         yes           Cooling type         Natural convection           Mechanical data   Material data         Vo           Conformal coaded PCB         no           Metwork         890 g           Mechanical data   Mounting data         Mo		5 s	
Diagnostics         Jean contact         yes           Installation   Connection         Push-in spring clamp terminals           Connection         Push-in spring clamp terminals           Degree of protection   Electrical           Installation height max ASL         5000 m           Degree of protection (EN IEC 60528)         IP20           Protection dass (EN IEC 61140)         1           Overload protection output         yes           Pollution Degree         2           Short-circuit protection output         yes           Overlamperature protection output         yes           Device protection   Mechanical         Vester protection output           Cooling type         Natural convection           Mechanical data   Material data         Vester protection output           Conflowal coated PCB         no           Material housing         Aluminium, Stainless steel           Mechanical data   Mounting data         No           Mechanical data   Mounting data	Ripple (s-s) max.	10 mV	
Alarm contact         yes           Installation   Connection         Push-In spring clamp terminats           Device protection   Electrical           Installation height max. ASL         5000 m           Degree of protection (ENLEC 60529)         IP20           Protection dass (EN IEC 61140)         I           Coverland protection output         yes           Pollution Degree         2           Short-circuit protection output         yes           Device protection   Mechanical         Veg           Cooling type         Natural convection           Mechanical data   Material data         Veg           Combustibility class housing (IL94)         V-Q           Conformal coated PCB         no           Material housing         Aluminum, Stainless steel           Mechanical data   Mounting data         V-Q           Not weight         89.9 g           Mounting method         geschnappt           Suitable for mounting type         Mounting rail TH35           Mounting method         geschnappt           Suitable for mounting type         Mounting rail TH35           Mounting rail TH35         Th respective for the protection of	Spikes (s-s) max.	110 mV	
Installation   Connection	Diagnostics		
Installation   Connection         Push-In spring clamp terminals           Device protection   Electrical           Installation height max. ASL         5000 m           Degree of protection (EN IEC 60529)         1P20           Protection class (EN IEC 61140)         I           Overfload protection output         yes           Pollution Degree         2           Short-circuit protection output         yes           Device protection   Mechanical         Vertenance           Coofing type         Natural convection           Mechanical data   Material data           Confload post (UL94)         V-0           Confload data   Munting data         V-0           Mechanical data   Munting data           Mechanical data   Munting data         V-0           Munting method         geschnappt           Suitable for mounting type         Mounting rall TH35           mounting position         horizontal, vertical           Height         143 mm           Width         50 mm           Depth         153 mm           Environmental characteristics   Climate           Ambient temperature max.         70 °C           Deracting from         60 °C	Alarm contact	ves	
Connection         Push-In spring clamp terminals           Device protection   Electrical           Installation height max. ASI.         5000 m           Degree of protection (EN IEC 60529)         IP20           Protection class (EN IEC 61140)         I           Overload protection output         yes           Pollution Degree         2           Short-circuit protection output         yes           Overtemperature protection output         yes           Device protection   Mechanical         Vertemperature protection untput           Website   Mechanical data   Material data         Vertemperature protection   Mechanical data   Material data           Conling type         Natural convection           Mechanical data   Material data         Vertemperature   Mechanical data   Mechanical data   Muniformal coated PCB         no           Mechanical data   Mounting data         Aluminium, Stainless steel           Mechanical data   Mounting data         Mechanical data   Mounting data           Net weight         890 g         Mechanical data   Mounting data           Mechanical data   Mounting data         Memory		,	
Device protection   Electrical           Installation height max. ASL         5000 m           Degree of protection (EN IEC 60529)         IP20           Protection ass (EN IEC 61140)         I           Overload protection output         yes           Pollution Degree         2           Short-circuit protection output         yes           Overlemprature protection output         yes           Device protection   Mechanical         Vocation protection output           Conflormat coated Poll (Installation of the protection output)         yes           Device protection   Mechanical data   Mechanica	·	Duck la sociale elemente misele	
Installation height max. ASL         5000 m           Degree of protection (EN IEC 6029)         IP20           Protection class (EN IEC 61140)         1           Verload protection output         yes           Pollution Degree         2           Short-cruit protection output         yes           Overtemperature protection output         yes           Device protection   Mechanical           Cooling type         Natural convection           Mechanical data   Material data           Combusibility class housing (UL94)         V-0           Conformal coated PCB         no           Material housing         Aluminium, Stainless steel           Mechanical data   Mounting data           Net weight         890 g           Mounting method         geschnappt           Suitable for mounting type         Mounting rail TH35           mounting position         horizontal, vertical           Height         143 mm           Width         50 mm           Depth         153 mm           Environmental characteristics   Climatic           Ambient temperature min.         -40 °C           Storage temperature max.         70 °C           Storage temperature max.		Pusn-In spring clamp terminals	
Degree of protection (EN IEC 60529)         IP20           Protection class (EN IEC 61140)         1           Overload protection output         yes           Pollution Degree         2           Short-circuit protection output         yes           Overload protection   Mechanical         Vernoun (Cooling type)         Natural convection           Mechanical data   Material data           Combustibility class housing (UL94)         V-0           Conformal coated PCB         no           Material data   Mounting data           Net weight         890 g           Mounting method         geschnappt           Suitable for mounting type         Mounting rail TH35           mounting poeition         Inorizontal, vertical           Height         143 mm           Width         50 mm           Depth         15 mm           Environmental characteristics   Climatic           Environmental perature min.         40 °C           Orarig from         60 °C           Storage temperature max.         70 °C           Dorarig from         60 °C           Storage temperature max.         85 °C           Relative humidity min. (operation)         5 %	Device protection   Electrical		
Protection class (EN IEC 61140)			
Overload protection output         yes           Pollution Degree         2           Short-circuit protection output         yes           Overlemperature protection output         yes           Overlemperature protection   Mechanical         Voorlemperature protection   Mechanical           Cooling type         Natural convection           Mechanical data   Material data         Voorlemperature provided problems           Combrand coated PCB         no           Material housing         Aluminium, Stainless steel           Mechanical data   Mounting data         We weight           Net weight         890 g           Mounting method         geschnappt           Suitable for mounting type         Mounting all TH35           mounting position         horizontal, vertical           Height         143 mm           Width         50 mm           Depth         153 mm           Environmental characteristics   Climatic           Ambient temperature min.         -40 °C           Ambient temperature max.         70 °C           Derating from         60 °C           Storage temperature max.         85 °C           Relative humidity min. (operation)         5 %           Relative humidity min. (operation)		IP20	
Pollution Degree         2           Short-circuit protection output         yes           Overtemperature protection output         yes           Device protection   Mechanical           Cooling type         Natural convection           Mechanical data   Material data           Combustibility class housing (UL94)         V-0           Conformal coated PCB         no           Material housing         Aluminium, Stainless steel           Mechanical data   Mounting data           Net weight         890 g           Mounting method         geschnappt           Suitable for mounting type         Mounting rail TH35           mounting position         horizontal, vertical           Height         143 mm           Width         50 mm           Depth         153 mm           Environmental characteristics   Climatic           Ambient temperature min.         40 °C           Ambient temperature max.         70 °C           Storage temperature max.         85 °C           Relative humidity min. (operation)         5 %           Relative humidity min. (operation)         5 %           Relative humidity min. (operation)         5 %           Environmenta	Protection class (EN IEC 61140)	I	
Short-circuit protection output yes  Overlemperature protection output yes  Device protection   Mechanical  Cooling type Natural convection  Mechanical data   Material data  Combustibility class housing (UL94) V-0  Conformal coated PCB no  Material housing Aluminium, Stainless steel  Mechanical data   Mounting data  Net weight 890 g  Mounting method geschnappt  Suitable for mounting type Mounting rail TH35  mounting position horizontal, vertical  Height 143 mm  Width 50 mm  Depth 153 mm  Environmental characteristics   Climatic  Ambient temperature min. 40 °C  Storage temperature max. 70 °C  Derating from 60 °C  Storage temperature max. 85 °C  Relative humidity max. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH (EC) No 1907/2006  REACH SVHC		•	
Overtemperature protection   Mechanical         Valual convection           Cooling type         Natural convection           Mechanical data   Material data           Combustibility class housing (UL94)         V-0           Conformal coated PCB         no           Material housing         Aluminium, Stainless steel           Mechanical data   Mounting data           Net weight         890 g           Mounting method         geschnappt           Suitable for mounting type         Mounting rail TH35           mounting position         hoizonal, vertical           Height         143 mm           Width         50 mm           Depth         153 mm           Environmental characteristics   Climatic           Ambient temperature min.         -40 °C           Ambient temperature max.         70 °C           Derating from         60 °C           Storage temperature min.         -40 °C           Storage temperature max.         85 °C           Relative humidity min. (operation)         5 %           Relative humidity max. (operation)         5 %           Relative humidity max. (operation)         5 %           Relative humidity max. (operation)         5 %		2	
Device protection   Mechanical  Cooling type Natural convection  Mechanical data   Material data  Combustibility class housing (UL94) V-0  Conformal coated PCB no Material housing Aluminium, Stainless steel  Mechanical data   Mounting data  Net weight 890 g  Mounting method geschnapt  Suitable for mounting type Mounting rail TH35  mounting position horizontal, vertical  Height 143 mm  Width 50 mm  Depth 153 mm  Environmental characteristics   Climatic  Ambient temperature min. 40 °C  Storage temperature min. 40 °C  Storage temperature max. 85 °C  Relative humidity min. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006		·	
Cooling type Natural convection  Mechanical data   Material data  Combustibility class housing (UL94) V-0  Conformal coated PCB no Material housing Aluminium, Stainless steel  Mechanical data   Mounting data  Net weight 890 g  Mounting method geschnappt  Suitable for mounting type Mounting rail TH35  mounting position horizontal, vertical  Height 143 mm  Width 50 mm  Depth 153 mm  Environmental characteristics   Climatic  Ambient temperature min. 40 °C  Ambient temperature min. 40 °C  Storage temperature max. 85 °C  Relative humidity min. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC compliant		yes	
Mechanical data   Material data  Combustibility class housing (UL94) V-0  Conformal coated PCB no  Material housing Aluminium, Stainless steel  Mechanical data   Mounting data  Net weight 890 g  Mounting method geschnappt  Suitable for mounting type Mounting rail TH35  mounting position horizontal, vertical Height 143 mm  Width 50 mm  Depth 153 mm  Environmental characteristics   Climatic  Ambient temperature min. 40 °C  Ambient temperature min. 40 °C  Storage temperature min. 40 °C  Storage temperature min. 40 °C  Relative humidity min. (operation) 95 %  Relative humidity min. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC compliant	Device protection   Mechanical		
Combustibility class housing (UL94) V-0 Conformal coated PCB no Material housing Aluminium, Stainless steel  Mechanical data   Mounting data  Net weight 890 g Mounting method geschnappt Suitable for mounting type Mounting rail TH35 mounting position horizontal, vertical  Height 143 mm Width 50 mm  Depth 153 mm  Environmental characteristics   Climatic  Ambient temperature min40 °C Ambient temperature max. 70 °C Derating from 60 °C Storage temperature min40 °C Relative humidity min. (operation) 5 % Relative humidity min. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH (EC) No 1907/2006  REACH (EC) No 1907/2006  REACH-SVHC	Cooling type	Natural convection	
Conformal coated PCB no Material housing Aluminium, Stainless steel  Mechanical data   Mounting data  Net weight 890 g  Mounting method geschnappt  Suitable for mounting type Mounting rail TH35 mounting position horizontal, vertical  Height 143 mm  Width 50 mm  Depth 153 mm  Environmental characteristics   Climatic  Ambient temperature min40 °C  Ambient temperature max. 70 °C  Derating from 60 °C  Storage temperature min40 °C  Storage temperature max. 85 °C  Relative humidity min. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH—SVHC  Compliant	Mechanical data   Material data		
Material housing Aluminium, Stainless steel  Mechanical data   Mounting data  Net weight 890 g  Mounting method geschnappt  Suitable for mounting type Mounting rail TH35  mounting position horizontal, vertical  Height 143 mm  Width 50 mm  Depth 153 mm  Environmental characteristics   Climatic  Ambient temperature min40 °C  Ambient temperature max. 70 °C  Derating from 60 °C  Storage temperature min40 °C  Relative humidity min. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH—SVHC  Mounting Mounting steel  890 g  Mounting, Stainless steel  Mounting data  890 g  Mounting min Hass  890 g  Mounting rail TH35  Mounting rail	Combustibility class housing (UL94)	V-0	
Mechanical data   Mounting data       Net weight     890 g       Mounting method     geschnappt       Suitable for mounting type     Mounting rail TH35       mounting position     horizontal, vertical       Height     143 mm       Width     50 mm       Depth     153 mm       Environmental characteristics   Climatic       Ambient temperature min.     -40 °C       Ambient temperature max.     70 °C       Derating from     60 °C       Storage temperature min.     -40 °C       Storage temperature max.     85 °C       Relative humidity min. (operation)     5 %       Relative humidity max. (operation)     95 %       Environmental product conformity       REACH     (EC) No 1907/2006       REACH-SVHC     compliant	Conformal coated PCB	no	
Net weight 890 g  Mounting method geschnappt  Suitable for mounting type Mounting rail TH35 mounting position horizontal, vertical  Height 143 mm  Width 50 mm  Depth 153 mm  Environmental characteristics   Climatic  Ambient temperature min40 °C  Ambient temperature max. 70 °C  Derating from 60 °C  Storage temperature min40 °C  Storage temperature max. 85 °C  Relative humidity min. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC  Suitable Mounting type Mounting TH35  Mounting rail TH3  Mounting rail TH35  Mounting r	Material housing	Aluminium, Stainless steel	
Mounting method geschnappt  Suitable for mounting type Mounting rail TH35 mounting position horizontal, vertical  Height 143 mm  Width 50 mm  Depth 153 mm   Environmental characteristics   Climatic  Ambient temperature min40 °C  Ambient temperature max. 70 °C  Derating from 60 °C  Storage temperature min40 °C  Storage temperature max. 85 °C  Relative humidity min. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC  REACH-SVHC  Mounting method geschnappt  Advinting in H135  Mounting rail TH35  Mounting in H35  Mounting rail TH35  Mounting rail This  Mounting	Mechanical data   Mounting data		
Mounting method geschnappt  Suitable for mounting type Mounting rail TH35 mounting position horizontal, vertical  Height 143 mm  Width 50 mm  Depth 153 mm   Environmental characteristics   Climatic  Ambient temperature min40 °C  Ambient temperature max. 70 °C  Derating from 60 °C  Storage temperature min40 °C  Storage temperature max. 85 °C  Relative humidity min. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC compliant	Net weight	890 g	
mounting position horizontal, vertical Height 143 mm  Width 50 mm  Depth 153 mm  Environmental characteristics   Climatic  Ambient temperature min40 °C  Ambient temperature max. 70 °C  Derating from 60 °C  Storage temperature min40 °C  Storage temperature max. 85 °C  Relative humidity min. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC compliant		geschnappt	
Height 143 mm  Width 50 mm  Depth 153 mm  Environmental characteristics   Climatic  Ambient temperature min40 °C  Ambient temperature max. 70 °C  Derating from 60 °C  Storage temperature min40 °C  Storage temperature max. 85 °C  Relative humidity min. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC compliant	Suitable for mounting type	Mounting rail TH35	
Width 50 mm  Depth 153 mm  Environmental characteristics   Climatic  Ambient temperature min40 °C  Ambient temperature max. 70 °C  Derating from 60 °C  Storage temperature min40 °C  Storage temperature max. 85 °C  Relative humidity min. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC compliant	mounting position	horizontal, vertical	
Depth 153 mm  Environmental characteristics   Climatic  Ambient temperature min40 °C  Ambient temperature max. 70 °C  Derating from 60 °C  Storage temperature min40 °C  Storage temperature min40 °C  Storage temperature max. 85 °C  Relative humidity min. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC compliant	Height	143 mm	
Environmental characteristics   Climatic  Ambient temperature min40 °C  Ambient temperature max. 70 °C  Derating from 60 °C  Storage temperature min40 °C  Storage temperature max. 85 °C  Relative humidity min. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC compliant	Width	50 mm	
Ambient temperature min.  -40 °C  Ambient temperature max.  70 °C  Derating from  60 °C  Storage temperature min.  -40 °C  Storage temperature max.  85 °C  Relative humidity min. (operation)  5 %  Relative humidity max. (operation)  95 %  Environmental product conformity  REACH  (EC) No 1907/2006  REACH-SVHC  compliant	Depth	153 mm	
Ambient temperature max. 70 °C  Derating from 60 °C  Storage temperature min40 °C  Storage temperature max. 85 °C  Relative humidity min. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC compliant	Environmental characteristics   Climatic		
Derating from 60 °C  Storage temperature min40 °C  Storage temperature max. 85 °C  Relative humidity min. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC compliant	Ambient temperature min.	-40 °C	
Storage temperature min.  Storage temperature max.  85 °C  Relative humidity min. (operation)  5 %  Relative humidity max. (operation)  95 %  Environmental product conformity  REACH  (EC) No 1907/2006  REACH-SVHC  compliant	Ambient temperature max.	70 °C	
Storage temperature max. 85 °C  Relative humidity min. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC compliant	Derating from	60 °C	
Relative humidity min. (operation) 5 %  Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC compliant	Storage temperature min.	-40 °C	
Relative humidity max. (operation) 95 %  Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC compliant	Storage temperature max.	85 °C	
Environmental product conformity  REACH (EC) No 1907/2006  REACH-SVHC compliant		5 %	
REACH (EC) No 1907/2006  REACH-SVHC compliant	Relative humidity max. (operation)	95 %	
REACH-SVHC compliant	Environmental product conformity		
·	REACH	(EC) No 1907/2006	
RoHS 2011/65/EU	REACH-SVHC	compliant	
	RoHS	2011/65/EU	

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-21



China RoHS	compliant   EPUP 20
WEEE	compliant
Conformity	
CE	2014/30/EU
Approvals	
UL	E200364
ULc	E200364
SEMI F47	compliant
Commercial data	
customs tariff number	85044095
GTIN	4048879910620
Packaging unit	1