

DATO-DATE
01.07.14

REF.
EW/kh

GODKJ.-APPR.

ENDRET-CHANGED
13.12.16 EW/bm

DOK.NR.-DOC.NO.
5040B

TEKNISKE DATA / SPECIFICATIONS FOR TYPE 3044

SPECIFICATIONS for Mascot type 3044:	Li-Ion								
	1-cell	2-cell	3-cell	4-cell	5-cell	6-cell	7-cell	8-cell	10-cell
Input voltage	10-30Vdc	10-30Vdc	10-30Vdc	10-30Vdc	10-30Vdc	10-30Vdc	10-30Vdc	10-30Vdc	10-30Vdc
Step 1 Charge current (orange LED):	3A ±0.25A	2.7A ±0.2A	2.3A ±0.2A	2A ±0.15A	1.6A ±0.1A	1.4A ±0.1A	2A ±0.2A	1.0A ±0.1A	1.5A ±0.1A
Step 2 Charge voltage:	4.2V ±0.1V	8.4V ±0.1V	12.6V ±0.1V	16.8V ±0.1V	21.0V ±0.1V	25.2V ±0.1V	29.4V ±0.2V	33.6V ±0.1V	42.0V ±0.1V
Step 2 Current when LED turns to yellow:	< 1.15A ±25%	< 1.15A ±25%	< 0.9A ±25%	< 0.85A ±25%	< 0.7A ±25%	< 0.6A ±25%	< 0.8A ±25%	< 0.4A ±25%	< 0.7A ±25%
Step 3 Current when LED turns to green, Charge termination:	< 0.1A ±25%	< 0.1A ±25%	< 0.1A ±25%	< 0.1A ±25%	< 0.1A ±25%	< 0.1A ±25%	< 0.3A ±25%	< 0.1A ±25%	< 0.1A ±25%
Charge start Vbat <:	4.1V ±0/-0.2V or mains turn-on	8.2V ±0/-0.2V or mains turn-on	12.3V ±0.15V or mains turn-on	16.4V ±0.15V or mains turn-on	20.5V ±0.2V or mains turn-on	24.6V ±0.2V or mains turn-on	28.7V ±0.3V or mains turn-on	32.8V ±0.3V or mains turn-on	41.0V ±0.3V or mains turn-on
Max output power:	13W	23W	29W	33W	33W	35W	60W	33W	63W
Leakage current from battery with no input voltage:	< 1mA	< 1mA	< 1mA	< 1mA	< 1mA	< 1mA	< 1mA	< 1mA	< 1mA
Ripple:	100mV p-p	100mV p-p	100mV p-p	100mV p-p	100mV p-p	100mV p-p	100mV p-p	100mV p-p	100mV p-p
Switch frequency approx.:	40kHz.								
Temperature range:	-20 til +40°C (these values are only for the charger, not for the batteries).								
Storage temperature:	-20 til +85°C								
Efficiency (100% load 13.5V input):	Ca. 80%.								
Fuse:	5A fuse on input cable. Polyswitch fuse at the output protects the unit against wrong polarity.								
EMC standard:	EN 61204-3								
Output terminals:	Secondary cable with exchangeable plugs.								
IP-grade:	IP 41.								
Dimensions:	135 x 80 x 44 mm.								
Weight:	550 g.								
Other:									

DATO-DATE
01.07.14REF.
EW/kh

GODKJ.-APPR.

ENDRET-CHANGED
13.12.16 EW/bmDOK.NR.-DOC.NO.
5040B

TEKNISKE DATA / SPECIFICATIONS FOR TYPE 3044

SPECIFICATIONS for Mascot type 3044:	LiFePO₄ 8-cell
Input voltage	10-30Vdc
Step 1 Charge current (orange LED):	2A ±0.2A
Step 2 Charge voltage:	29.2V ±0.2V
Step 2 Current when LED turns to yellow:	< 0.8A ±25%
Step 3 Current when LED turns to green, Charge termination:	< 0.3A ±25%
Float charge voltage:	28.0V ±0.3V
Max output power:	60W
Leakage current from battery with no input voltage:	< 1mA
Ripple:	100mV p-p
Switch frequency approx.:	40kHz.
Temperature range:	-20 til +40°C (these values are only for the charger, not for the batteries).
Storage temperature:	-20 til +85°C
Efficiency (100% load 13.5V input):	Ca. 80%.
Fuse:	5A fuse on input cable. Polyswitch fuse at the output protects the unit against wrong polarity.
EMC standard:	EN 61204-3
Output terminals:	Secondary cable with exchangeable plugs.
IP-grade:	IP 41.
Dimensions:	135 x 80 x 44 mm.
Weight:	550 g.
Other:	

DATO-DATE
01.07.14REF.
EW/kh

GODKJ.-APPR.

ENDRET-CHANGED
13.12.16 EW/bmDOK.NR.-DOC.NO.
5040B

TEKNISKE DATA / SPECIFICATIONS FOR TYPE 3044

SPECIFICATIONS for Mascot type 3044:	12V LA	24V LA
Input voltage	10-30Vdc	10-30Vdc
Step 1 Charge current (orange LED):	4A ±0.3A	2A ±0.2A
Step 2 Charge voltage:	14.7V ± 0.1V	29.4V ± 0.2V
Step 2 Current when LED turns to yellow:	< 2A ± 25%	< 0.8A ± 25%
Step 3 Current when LED turns to green, Charge termination:	< 1A ± 25%	< 0.3A ± 25%
Float Charge:	13.7V ± 0.2V	27.4V ± 0.3V
Max output power:	60W	60W
Leakage current from battery with no input voltage:	< 1mA	< 1mA
Ripple:	100mV p-p	100mV p-p
Switch frequency approx.:	40kHz.	
Temperature range:	-20 til +40°C (these values are only for the charger, not for the batteries).	
Storage temperature:	-20 til +85°C	
Efficiency (100% load 13.5V input):	Ca. 80%.	
Fuse:	5A fuse on input cable. Polyswitch fuse at the output protects the unit against wrong polarity.	
EMC standard:	EN 61204-3	
Output terminals:	Secondary cable with exchangeable plugs.	
IP-grade:	IP 41.	
Dimensions:	135 × 80 × 44 mm.	
Weight:	550 g.	
Other:		