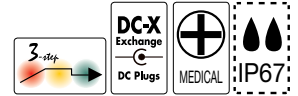


Charger for lead acid batteries - switch mode

- 3-step charge control with microprocessor
- Low current start up of deeply discharged batteries (step 0)
- Unaffected by fluctuations in mains voltage
- Protected against reverse polarity and short circuit proof
- Custom design on request: timers, charge current, logoprint etc.
- Approvals:
 - Medically certified EN60601 3ed
 - For updates: see www.mascot.no

- 3-trinns ladekontroll med mikroprosessor
- Lavstrømsmodus ved oppstart av meget utladde batterier (trinn 0)
- Uavhengig av nettspenningsvariasjoner
- Polvendings- og kortslutningssikker
- Tilpasninger leveres på forespørsel: timere, ladestrøm, logotrykk etc.
- Godkjenninger:
 - Medisinsk sertifisert EN 60601 3ed
 - For oppdat.: se www.mascot.no



Technical specifications	Tekniske data	12V	24V
Input voltage:	Inngangsspenning:	90 - 264 VAC	
Line frequency:	Frekvensområde:	47 - 63 Hz	
Max output power:	Maks. utgangseffekt:	58W	74W
Charge timer (step 2):	Ladetimer (step 2):	4 h	
Safety timer:	Sikkerhetstimer:	72 h	
Restart charge current:	Restart ladestrøm:	4 A	2,5 A
Indication "batt. not connected":	Indikasjon når batt. ikke tilkoblet:	flashing green blinkende grønn	
Ripple:	Rippel:	< 100 mV p-p	
Efficiency (at 100% load):	Virkningsgrad (v. 100% last):	> 85%	
Switch frequency approx.:	Svitsjefrekvens ca.:	40 kHz	
Temperature range	Temperaturområde		
• Operating:	• Drift:	-25 to +40 °C	
• Storage:	• Lagring:	-25 to +85 °C	
Protection	Beskyttelse		
- Short circuit proof:	- Kortslutningssikker:	Lading av batt. m lavere spenning (e.g. 6V/12V)	
- Against reversed polarity:	- Polvendingsikker:	begr. strømmen til 1,2A/0,6A og term. e. 30 min.	
- Against overheating:	- Mot overoppheting:	Charging of lower voltage batt (e.g. 6V/12V)	
- Safety timer:	- Sikkerhetstimer:	will be limit. to 1,2A/0,6A and term. after 30 min.	
Safety:	Sikkerhet:	EN 60335-2-29, EN 60601-1	
Insulation class:	Isolasjonsklasse:	Class II	
Insulation voltage	Isolasjonsspenning		
Primary-secondary:	Primær - sekundær:	3750VAC / 5300 VDC	
EMC standards:	EMC standarder:	PFC EN 6100-3-2 class D, EN 61000-6-3, EN 61000-6-1, EN60601-1 3ed	
Input terminal:	Inngangsterminal:	2-pin IEC-320	
Terminals:	Utgangsterminal:	battery clips, push-on terminals or DC conn.	
IP-grade:	IP-grad:	41	
Rec. battery capacity:	Anbefalt batterikapasitet:	20 - 200 Ah	12 - 125 Ah
Dimensions (LxWxH):	Ytre mål (LxBxH):	135 x 80 x 44 mm	
Weight:	Vekt:	390 g	

Charge control - Ladekontroll (LED indication)

	Step / Trinn 0 < 30 min	Step / Trinn 0 > 30 min	Step / Trinn 1	Step / Trinn 2	Step / Trinn 3	Float charge
	(Yellow/Gul)	(Red=error / Rød=feil)	(Yellow / Gul)	(Blink Gul/Flash Yellow)	(Green / Grønn)	Vedl. lading
12V	1,2A +- 0,2A (batt volt< 10,5V)	< 0,2A	4A +- 0,2A (batt volt >10,5V) (til Vbat = 14,7V)	14,7V +- 0,1V (until I charge <1,2A or >4hr) tapering charge current	13,7V +- 0,2V (until I charge > 4,0A) supply current up to max. 4,0A for possible parallel load	4,0A Pulsing current at safe float volt. level for max topp. of batt.
24V	0,6A ± 0,2A (batt volt< 21V)	< 0,2A	2,5A ± 0,2A (batt volt< 21V) (until Vbat = 29,4V)	29,4V ± 0,1V (until I charge <0,6A or >4hr) tapering charge current	27,4V +- 0,2V (until I charge > 2,5A) supply current up to max 2,5A for possible parallel load	2,5A Pulsing current at safe float volt. level for max topp. of batt.

Charging characteristics and LED indication / Ladekarakteristikk og lysdiode (LED) indikasjon (data for 12V version)

