

STUDER Xtender Series XTH & XTM



Technical data sheet

Model	XTM2000-12	XTH3000-12	XTM3500-24	XTH5000-24	XTM4000-48	XTH6000-48	XTH8000-48
Inverter (factory setting / range adjustable with RCC-02 or RCC-03)							
Nominal battery voltage	12V		24V		48V		
Input voltage range	9.5 – 17V		19 – 34V		38 – 68V		
Continuous power @ 25° C	1600VA	2500VA	3000VA	4500VA	3500VA	5000VA	7000VA
Power 30 min. @ 25° C	2000VA	3000VA	3500VA	5000VA	4000VA	6000VA	8000VA
Power 5 sec. @ 25° C	4.8kVA	7.5kVA	9kVA	12kVA	10.5kVA	15kVA	21kVA
Power Smart-Boost 30 min. @ 25° C	2000VA	3000VA	3500VA	5000VA	4000VA	6000VA	8000VA
Max. load	Up to short-circuit						
Max. asymmetric load	Up to Pcont.						
Load detection (stand-by)	2 to 25W						
Power factor	0.1-1						
Max. efficiency	93%		94%		96%		
Consumption: OFF/ Stand-by/ON	1.2W	1.7W	1.3W	1.3W	1.6W	1.6W	1.6W
	2.2W	2.2W	2.5W	2.5W	3W	3W	3.8W
	9W	14W	11W	20W	12W	22W	30W
Output voltage	Sine wave 230VAC (+/- 2%) / 190-245VAC						
Output freq.	50Hz adjustable 45-65Hz +/- 0.05% (crystal controlled)						
Harmonic distortion	< 2%						
Dynamic behaviour	1 ms (on load change 0 to 100%)						
Overload & short-circuit protection	Automatic disconnection with 3 time restart attempt						
Overheat protection	Warning before shut-off – with automatic restart						
Battery charger 6 step adjustable : I-U-Uo-Equalise-Uo(low)-U(periodic)							
Charging current adjustable	0 – 85A	0 – 160A	0 – 75A	0 - 140A	0 – 65A	0 – 100A	0 – 120A
Input current balance adjustment	1 – 50A						
Max. input voltage	265VAC						
Input AC voltage range	Adjustable threshold from 150 to 230VAC						
Input frequency	45 – 65Hz						
PFC	EN 61000-3-2						

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Battery control (factory setting/range adjustable with RCC-02 or RCC-03)							
Absorption end	By duration 2 / 0.25 – 10h or by current - / 4 – 30A						
Absorption voltage	14.4 / 9.5- 17V	28.8 / 19 – 34V			57.6 / 38 – 68V		
Periodic absorption voltage	- / 9.5 – 17V	- / 19 – 34V			- / 38 – 68V		
Floating voltage	13.6 / 9.5 – 17V	27.2 / 19 – 34V			54.5 / 38 – 68V		
Reduced floating voltage	- / 9.5 – 17V	- / 19 – 34V			- / 38 – 68V		
Equalization	By number of cycles (- / 1 – 100) or at set interval (- / 52 weeks)						
Equalization end	By duration 4 / 0.25 – 10h or by current - / 4 – 30A						
Equalization voltage	- / 9.5 – 17V	- / 19 – 34V			- / 38 – 68V		
Deep-discharge protection	10.8 / 9.5 – 17V	21.6 / 19 – 34V			43.2 / 38 – 68V		
Reduced floating time	- / 0 – 32 days						
Periodic absorption time	- / 0- 10 hours						
Temp. compensation	-5 / 0 to -8mV/°C/Cell (only with optional BTS-01)						
General Data							
Multifunction contact adjustable	2 independent contacts 16A 250VAC (potential free 3 points)						
Max. current on transfer relay	50A / 11.5kVA						
Transfer time	< 15ms						
Weight	18.5 kg	34 kg	21.2 kg	40 kg	22.9 kg	42 kg	46 kg
Dim. H x D x L (mm)	133x322x466	230x300x500	133x322x466	230x300x500	133x322x466	230x300x500	230x300x500
Protection index	IP23						
Conformity	EN 61000-6-1, EN 61000-6-3, EN 55014, EN 55022, EN 61000-3-2, Dir. 89/336/EEC,LVD 73/23/EEC						
Operating temp.range	-20 to 55°C						
Ventilation	Forced from 55°C						
Acoustic level	< 40dB / < 45dB (without / with ventilation)						
Warranty	2 years						
Options							
Remote control and programmable centre RCC-02 or RCC-03	•		•		•		•
Communication cable for 3ph and parallel CAB-RJ45-8-2 (2m)	•		•		•		•
Battery temp. sensor BTS-01 (5m)	•		•		•		•
Remote command module RMC – 10 + 3 m cable	•		•		•		•

Specifications may change without prior notice

