

TECHNICAL DATA

SHARP 50 BATTERY CHARGER

STATED DATA ACCORDING TO MICROPOWER STANDARD

VARIABLE	UNIT	VALUE									
Part number	-	SP2383	SP2389	PS2386	SP2423	SP2429	PS2426	SP2483	SP2489	PS2486	
Model	-	SHARP 50	SHARP 50	SHARP 50	SHARP 50	SHARP 50	SHARP 50	SHARP 50	SHARP 50	SHARP 50	
Type	-	24V/80A	24V/80A	24V/80	24V/100A	24V/100A	24V/100A	24V/130A	24V/130A	24V/130A	
Output voltage	V	24	24	24	24	24	24	24	24	24	
Output current (at 2,4 Vpc)	A	80	80	80	100	100	100	130	130	130	
MAINS DATA											
Mains phase	-	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	
Mains voltage supply	V	200-240	380-440	480-480	200-240	380-440	480-480	200-240	380-440	480-480	
Mains current (at min rated mains V)	A	7,8	4,2	3,1	9,8	5,3	3,8	12,7	6,7	5,0	
Mains current (at max rated mains V)	A	6,5	3,6	-	8,1	4,6	-	10,5	5,8	-	
Max mains fuse	A	25	16	16	25	16	16	25	16	16	
Mains cable area	mm2	4x1,5	4x1,5	4xAWG14	4x1,5	4x1,5	4xAWG14	4x2,5	4x1,5	4xAWG14	
Mains cable length	m	3	3	3	3	3	3	3	3	3	
Mains connector (included)	-	CEE16 (Blue)	CEE16 (Red)	NEMA L16-30P	CEE16 (Blue)	CEE16 (Red)	NEMA L16-30P	CEE16 (Blue)	CEE16 (Red)	NEMA L16-30P	
BATTERY CONNECTION											
Battery cable	mm2	2x25	2x25	2xAWG4	2x35	2x35	2xAWG2	2x50	2x50	2xAWG1/0	
Battery cable length	m	3	3	3	3	3	3	3	3	3	
Battery connector (not included)	-	User defined	User defined	User defined	User defined	User defined	User defined	User defined	User defined	User defined	
ELECTRIC DATA											
Standby power consumption	W	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
Power consumption	W	2 567	2 626	2 430	3 225	3 314	3 038	4 179	4 189	3 949	
Apparent power consumption	VA	2 702	2 764	2 558	3 395	3 488	3 198	4 399	4 410	4 157	
Power factor	-	0,95	0,95	0,95	0,95	0,95	0,95	0,95	0,95	0,95	
Inrush current	A	Negligible	Negligible	Negligible	Negligible	Negligible	Negligible	Negligible	Negligible	Negligible	
Output ripple	% RMS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
Efficiency (at rated power and no cables)	%	91	92	92	91	92	92	91	92	92	
PROPERTIES											
Ingress protection	IP	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	
Ambient temperature range (at full capacity)	°C	-5 to +40	-5 to +40	-5 to +40	-5 to +40	-5 to +40	-5 to +40	-5 to +40	-5 to +40	-5 to +40	
Ambient max temp (with reduced capacity)	°C	50	50	50	50	50	50	50	50	50	
Cooling	-	Fan	Fan	Fan	Fan	Fan	Fan	Fan	Fan	Fan	
Short circuit protection	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Wrong polarity protection	-	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse	
Cabinet type	-	S16	S16	S16	S16	S16	S16	S16	S16	S16	
Certifications	-	CE	CE	UL	CE	CE	UL	CE	CE	UL	
HMI	-	LED	LED	LED	LED	LED	LED	LED	LED	LED	
HMI Language	-	-	-	-	-	-	-	-	-	-	
Radio communication	-	No	No	No	No	No	No	No	No	No	
Charging curve set (specification tab)	-	See website	See website	See website	See website	See website	See website	See website	See website	See website	
I/O-cards	-	No	No	No	No	No	No	No	No	No	
Accessories (accessories tab)	-	See website	See website	See website	See website	See website	See website	See website	See website	See website	
CHARGING TIMES (Charging Curve: LK10-18 with Chemical Acid Circulation)											
6 h	Ah C5	459	459	459	574	574	574	746	746	746	
8 h	Ah C5	665	665	665	833	833	833	1083	1083	1083	
10 h	Ah C5	887	887	887	1112	1112	1112	1446	1446	1446	
12 h	Ah C5	1220	1220	1220	1532	1532	1532	1992	1992	1992	
CHARGER DIMENSIONS											
Charger weight excl. cables	kg	6,7	6,7	6,7	6,7	6,7	6,7	6,7	6,7	6,7	
Charger weight incl. cables	kg	9,1	9,1	9,1	9,7	9,7	9,7	10,8	10,6	10,6	
Dimensions	-	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	
Fixing center points	-	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	
Min spacing required	mm	100	100	100	100	100	100	100	100	100	
SHIPPING DIMENSIONS											
Box height	mm	270	270	270	270	270	270	270	270	270	
Box width	mm	330	330	330	330	330	330	330	330	330	
Box depth	mm	460	460	460	460	460	460	460	460	460	
Shipping weight	kg	10,3	10,3	10,3	10,9	10,9	10,9	12,0	11,7	11,7	

TECHNICAL DATA

SHARP 50 BATTERY CHARGER

STATED DATA ACCORDING TO MICROPOWER STANDARD

VARIABLE	UNIT										
Part number	-	SP3343	SP3349	PS3346	SP3383	SP3389	PS3386	SP3433	SP3439	PS3436	
Model	-	SHARP 50	SHARP 50	SHARP 50	SHARP 50	SHARP 50	SHARP 50	SHARP 50	SHARP 50	SHARP 50	
Type	-	36V/60A	36V/60A	36V/60A	36V/80A	36V/80A	36V/80A	36V/105A	36V/105A	36V/105A	
Output voltage	V	36	36	36	36	36	36	36	36	36	
Output current (at 2,4 Vpc)	A	60	60	60	80	80	80	105	105	105	
MAINS DATA											
Mains phase	-	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	
Mains voltage supply	V	200-240	380-440	480-480	200-240	380-440	480-480	200-240	380-440	480-480	
Mains current (at min rated mains V)	A	8,6	4,7	3,5	11,5	6,3	4,6	15,2	8,2	6,1	
Mains current (at max rated mains V)	A	7,1	4,1	-	9,5	5,4	-	12,7	7,1	-	
Max mains fuse	A	25	16	16	25	16	16	25	16	16	
Mains cable area	mm2	4x1,5	4x1,5	4xAWG14	4x2,5	4x1,5	4xAWG14	4x2,5	4x1,5	4xAWG14	
Mains cable length	m	3	3	3	3	3	3	3	3	3	
Mains connector (included)	-	CEE16 (Blue)	CEE16 (Red)	NEMA L16-30P	CEE16 (Blue)	CEE16 (Red)	NEMA L16-30P	CEE16 (Blue)	CEE16 (Red)	NEMA L16-30P	
BATTERY CONNECTION											
Battery cable	mm2	2x16	2x16	2xAWG6	2x25	2x25	2xAWG4	2x35	2x35	2xAWG2	
Battery cable length	m	3	3	3	3	3	3	3	3	3	
Battery connector (not included)	-	User defined	User defined	User defined	User defined	User defined	User defined	User defined	User defined	User defined	
ELECTRIC DATA											
Standby power consumption	W	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	
Power consumption	W	2 838	2 954	2 753	3 785	3 939	3 671	5 010	5 127	4 818	
Apparent power consumption	VA	2 988	3 110	2 898	3 984	4 147	3 864	5 274	5 397	5 071	
Power factor	-	0,95	0,95	0,95	0,95	0,95	0,95	0,95	0,95	0,95	
Inrush current	A	Negligible	Negligible	Negligible	Negligible	Negligible	Negligible	Negligible	Negligible	Negligible	
Output ripple	% RMS	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	
Efficiency (at rated power and no cables)	%	91	92	93	91	92	93	91	92	93	
PROPERTIES											
Ingress protection	IP	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	
Ambient temperature range (at full capacity)	°C	-5 to +40	-5 to +40	-5 to +40	-5 to +40	-5 to +40	-5 to +40	-5 to +40	-5 to +40	-5 to +40	
Ambient max temp (with reduced capacity)	°C	50	50	50	50	50	50	50	50	50	
Cooling	-	Fan	Fan	Fan	Fan	Fan	Fan	Fan	Fan	Fan	
Short circuit protection	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Wrong polarity protection	-	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse	
Cabinet type	-	S16	S16	S16	S16	S16	S16	S16	S16	S16	
Certifications	-	CE	CE	UL	CE	CE	UL	CE	CE	CE	
HMI	-	LED	LED	LED	LED	LED	LED	LED	LED	LED	
HMI Language	-	-	-	-	-	-	-	-	-	-	
Radio communication	-	No	No	No	No	No	No	No	No	No	
Charging curve set (specification tab)	-	See website	See website	See website	See website	See website	See website	See website	See website	See website	
I/O-cards	-	No	No	No	No	No	No	No	No	No	
Accessories (accessories tab)	-	See website	See website	See website	See website	See website	See website	See website	See website	See website	
CHARGING TIMES (Charging Curve: LK10-18 with Chemical Acid Circulation)											
6 h	Ah C5	344	344	344	459	459	459	603	603	603	
8 h	Ah C5	500	500	500	665	665	665	875	875	875	
10 h	Ah C5	667	667	667	887	887	887	1168	1168	1168	
12 h	Ah C5	919	919	919	1220	1220	1220	1401	1401	1401	
CHARGER DIMENSIONS											
Charger weight excl. cables	kg	6,7	6,7	6,7	6,7	6,7	6,7	6,7	6,7	6,7	
Charger weight incl. cables	kg	8,5	8,5	8,5	9,4	9,1	9,1	10,0	9,7	9,7	
Dimensions	-	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	
Fixing center points	-	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing	
Min spacing required	mm	100	100	100	100	100	100	100	100	100	
SHIPPING DIMENSIONS											
Box height	mm	270	270	270	270	270	270	270	270	270	
Box width	mm	330	330	330	330	330	330	330	330	330	
Box depth	mm	460	460	460	460	460	460	460	460	460	
Shipping weight	kg	9,7	9,7	9,7	10,5	10,3	10,3	11,1	10,9	10,9	

TECHNICAL DATA

SHARP 50 BATTERY CHARGER

STATED DATA ACCORDING TO MICROPOWER STANDARD

VARIABLE	UNIT						
Part number	-	SP4343	SP4349	PS4346	SP4383	SP4389	PS4386
Model	-	SHARP 50	SHARP 50	SHARP 50	SHARP 50	SHARP 50	SHARP 50
Type	-	48V/60A	48V/60A	48V/60A	48V/80A	48V/80A	48V/80A
Output voltage	V	48	48	48	48	48	48
Output current (at 2,4 Vpc)	A	60	60	60	80	80	80
MAINS DATA							
Mains phase	-	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase	3 Phase
Mains voltage supply	V	200-240	380-440	480-480	200-240	380-440	480-480
Mains current (at min rated mains V)	A	11,6	6,1	4,6	15,5	8,2	6,1
Mains current (at max rated mains V)	A	9,7	5,3	-	12,9	7,1	-
Max mains fuse	A	25	16	16	25	16	16
Mains cable area	mm2	4x2,5	4x1,5	4xAWG14	4x2,5	4x1,5	4xAWG14
Mains cable length	m	3	3	3	3	3	3
Mains connector (included)	-	CEE16 (Blue)	CEE16 (Red)	NEMA L16-30P	CEE16 (Blue)	CEE16 (Red)	NEMA L16-30P
BATTERY CONNECTION							
Battery cable	mm2	2x16	2x16	2xAWG6	2x25	2x25	2xAWG4
Battery cable length	m	3	3	3	3	3	3
Battery connector (not included)	-	User defined	User defined	User defined	User defined	User defined	User defined
ELECTRIC DATA							
Standby power consumption	W	< 5	< 5	< 5	< 5	< 5	< 5
Power consumption	W	3 817	3 814	3 613	5 101	5 127	4818
Apparent power consumption	VA	4 018	4 015	3 804	5 369	5 397	5071
Power factor	-	0,95	0,95	0,95	0,95	0,95	0,95
Inrush current	A	Negligible	Negligible	Negligible	Negligible	Negligible	Negligible
Output ripple	% RMS	< 1	< 1	< 1	< 1	< 1	< 1
Efficiency (at rated power and no cables)	%	92	93	93	92	93	93
PROPERTIES							
Ingress protection	IP	IP20	IP20	IP20	IP20	IP20	IP20
Ambient temperature range (at full capacity)	°C	-5 to +40	-5 to +40	-5 to +40	-5 to +40	-5 to +40	-5 to +40
Ambient max temp (with reduced capacity)	°C	50	50	50	50	50	50
Cooling	-	Fan	Fan	Fan	Fan	Fan	Fan
Short circuit protection	-	Yes	Yes	Yes	Yes	Yes	Yes
Wrong polarity protection	-	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse
Cabinet type	-	S16	S16	S16	S16	S16	S16
Certifications	-	CE	CE	UL	CE	CE	UL
HMI	-	LED	LED	LED	LED	LED	LED
HMI Language	-	-	-	-	-	-	-
Radio communication	-	No	No	No	No	No	No
Charging curve set (specification tab)	-	See website	See website	See website	See website	See website	See website
I/O-cards	-	No	No	No	No	No	No
Accessories (accessories tab)	-	See website	See website	See website	See website	See website	See website
CHARING TIMES (Charging Curve: LK10-18 with Chemical Acid Circulation)							
6 h	Ah C5	344	344	344	459	459	459
8 h	Ah C5	494	494	494	665	665	665
10 h	Ah C5	660	660	660	880	880	880
12 h	Ah C5	919	919	919	1220	1220	1220
CHARGER DIMENSIONS							
Charger weight excl. cables	kg	6,7	6,7	6,7	6,7	6,7	6,7
Charger weight incl. cables	kg	8,7	8,5	8,5	9,4	9,1	9,1
Dimensions	-	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing
Fixing center points	-	See drawing	See drawing	See drawing	See drawing	See drawing	See drawing
Min spacing required	mm	100	100	100	100	100	100
SHIPPING DIMENSIONS							
Box height	mm	270	270	270	270	270	270
Box width	mm	330	330	330	330	330	330
Box depth	mm	460	460	460	460	460	460
Shipping weight	kg	9,9	9,7	9,7	10,5	10,3	10,3