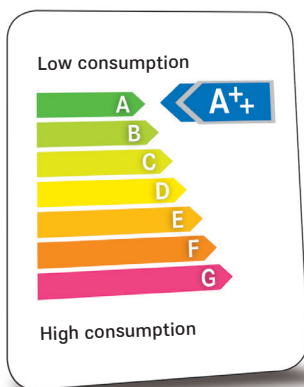




High frequency chargers HFX

Easy battery charging: efficient, space-saving and environmentally friendly

Best energy efficiency!



Range of application and charging time

- Usable for all PzS,- PzS-B, PzV-, PzV-B and PzW batteries for single and multi-shift operation and opportunity charge
- Charging time 6 - 14 hours

Advantages of the HFX high frequency charging technology

- Energy savings through high efficiency (>90%)
- Energy conservation by smaller Charge Factor for the battery CF= 1,05 - 1,10)
- Automatic compensation for line voltage changes
- Low residual ripple of the charging current, thereby approx. 30% less temperature rise of the battery during the charge and longer battery life
- Smaller space requirement in the charging bay
- Lower peak loads and installation cost due to lower power consumption

Product Futures of the HFX high frequency charging technology

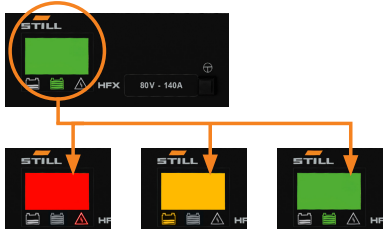
- Approx. 3 m charger cable
- Storage of the data for the last 200 charge cycles
- Readout over standard USB connection
- Protection class IP21
- Rugged and durable due to passive/active cooling system for industrial use in

Additional options

Electrolyte circulation as equalizing charge prevent stratification from start and extend the battery life without effecting the charge duration

Traffic light display

Good visibility even from a distance



Red = Error Yellow = Charging Green = Charge complete

Designed to prevent incorrect operation

- Fully automatic charging cycle, "Switching on" cannot be forgotten
- Automatic 'reconditioning' charge for batteries that have been standing
- Automatic equalizing charge
- Traffic light display visible from a distance
- STILL offers an annual inspection after BGV A3 - Ask your STILL Service

STILL high frequency chargers HFX

Battery rated voltage [V]	Battery capacity [Ah]				Equipment type	Nominal connection [kVA]	Network connectivity [A]	Weight [kg]	Power supply plug	Dimensions W x D x H [mm]	
	Charging time in hrs. without / with AMS*									without AMS*	with AMS*
	PzS-Battery		PzV-Battery								
	7,5 - 8,5 6,0 - 7,5** Ah5	9 - 11 7,5 - 9,5** Ah5	12 - 14 12 - 14** Ah5	12 - 14 Ah5							
24	110 - 130	130 - 150	130 - 200	100 - 125	E 24/16 HFX	0,4	16	3,5	Schuko	207x127x218	--
	140 - 180	160 - 200	180 - 250	125 - 160	E 24/20 HFX	0,5	16	3,5			
	190 - 250	220 - 280	250 - 350	180 - 240	E 24/30 HFX	0,8	16	4,8			
	270 - 350	310 - 390	350 - 500	240 - 320	E 24/40 HFX	1,1	16	4,8		294x127x218	334x260x218
	360 - 465	410 - 500	460 - 640	330 - 430	E 24/55 HFX	1,5	16	9			
	470 - 625	530 - 650	600 - 850	435 - 560	E 24/70 HFX	1,9	16	9			
	560 - 710	630 - 770	710 - 1000	500 - 625	E 24/80 HFX	2,1	16	9		460x166x218	460x300x218
	670 - 850	750 - 930	850 - 1200	625 - 770	E 24/100 HFX	2,7	16	15			
	810 - 1070	940 - 1150	1250 - 1660	750 - 920	E 24/120 HFX	3,2	16	15		564x318x405	564x318x405
920 - 1210	1060 - 1310	-	875 - 1100	D 24/140 HFX	3,7	16	30	CEE 16			
48	190 - 250	220 - 270	250 - 350	180 - 240	E 48/30 HFX	1,6	16	9	Schuko	460x166x218	460x300x218
	270 - 350	310 - 390	350 - 500	240 - 320	E 48/40 HFX	2,1	16	15			
	330 - 420	410 - 500	460 - 640	320 - 400	E 48/50 HFX	2,7	16	15			
	460 - 625	530 - 650	600 - 850	420 - 560	D 48/70 HFX	3,7	16	30	CEE 16	564x318x405	564x318x405
	560 - 710	630 - 770	710 - 1000	500 - 625	D 48/80 HFX	4,3	16	30			
	670 - 850	750 - 930	850 - 1200	625 - 770	D 48/100 HFX	5,3	16	30			
	810 - 1070	940 - 1150	1250 - 1660	750 - 920	D 48/120 HFX	6,4	16	30			
920 - 1210	1060 - 1310	-	875 - 1100	D 48/140 HFX	7,5	16	70				
80	140 - 180	160 - 190	180 - 250	125 - 160	E 80/20 HFX	1,8	16	9	Schuko	460x166x218	460x300x218
	190 - 250	220 - 270	250 - 350	180 - 240	E 80/30 HFX	2,7	16	15			
	270 - 350	310 - 390	350 - 500	240 - 320	D 80/40 HFX	3,6	16	30			
	360 - 465	410 - 500	460 - 640	330 - 430	D 80/55 HFX	4,9	16	30	CEE 16	564x318x405	564x318x405
	470 - 625	530 - 650	600 - 850	435 - 560	D 80/70 HFX	6,2	16	30			
	560 - 710	630 - 770	710 - 1000	500 - 625	D 80/80 HFX	7,1	16	30			
	670 - 850	750 - 930	850 - 1200	625 - 770	D 80/100 HFX	8,9	16	70			
	810 - 1070	940 - 1150	1250 - 1660	750 - 920	D 80/120 HFX	10,7	20	70	CEE 32	564x392x90	564x392x90
	920 - 1210	1060 - 1310	-	875 - 1100	D 80/140 HFX	12,4	25	70			
	1062 - 1300	1350 - 1700	-	850 - 1300	D 80 /170 HFX	15,9	25	70			

* AMS = airmix system
** with airmix system

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first in intralogistics

STILL