



Technical Data
Intelligent
modular
HF chargers

LIFE *Speed IQ*™



LifeSpeed IQ™ - 3-phase Matching Table for Hawker® XFC™ batteries

Cell Type	C ₅	Charger Model	Charging current (Amps)	Charging Rate	Full recharge time from 80% DoD	Full recharge time from 60% DoD	Recharge time to 98% C ₅ from 60% DoD	Recharge time to 80% C ₅ from 60% DoD
24 / 36 / 48 Volt Capacity in Ah/C ₅ to be recharged within ... hours.								
12XFC500	500	LifeSpeed IQ 14kW	210	0.42	4.2h	3.7h	2.2h	0.95h
15XFC625	625	LifeSpeed IQ 14kW	230	0.37	4.4h	3.8h	2.3h	1.08h
18XFC750	750	LifeSpeed IQ 21kW	280	0.37	4.4h	3.8h	2.3h	1.08h
72 / 80 Volt Capacity in Ah/C ₅ to be recharged within ... hours.								
9XFC375	375	LifeSpeed IQ 14kW	140	0.37	4.4h	3.8h	2.3h	1.08h
12XFC500	500	LifeSpeed IQ 21kW	210	0.42	4.2h	3.7h	2.2h	0.95h
15XFC625	625	LifeSpeed IQ 28kW	280	0.45	4.1h	3.6h	2.1h	0.89h
18XFC750	750	LifeSpeed IQ 28kW	280	0.37	4.4h	3.8h	2.3h	1.08h

LifeSpeed IQ™ - 3-phase Matching Table for FAST CHARGE applications

Charging time at 80% DOD between 3.5-3.75 h. Fixed charging rate 0.4.

LifeSpeed IQ model	output current from min to max		Min C ₅	Max C ₅
	Min Amp dc	Max Amp dc	Ah	Ah
24 / 36 / 48 Volt				
14 kW	115	230	280	575
21 kW	230	320	575	800
28 kW	320	460	800	1150
72 / 80 Volt				
14 kW	70	140	180	350
21 kW	140	210	350	525
28 kW	210	280	525	700
35 kW	280	350	700	875
42 kW	350	420	875	1050

LifeSpeed IQ™ - 3-phase Matching Table of capacity and recharge time for flooded (Perfect Plus / Water Less) and airmix technologies

Recharge time in hours for a 80% discharged battery, at a electrolyte temperature of 30°C.

LifeSpeed IQ Standard With Ionic system With electrolyte circulation	Perfect Plus					Water Less®					
	7h	8h	10h	12h		6h	7h	8h	9h		
	5h30	6h30	7h30	8h30		5h	6h	7h	8h		
	battery capacity in Ah/C ₅ to be recharged in... hours					battery capacity in Ah/C ₅ to be recharged in... hours					
Max Amp	C ₅ min	C ₅	C ₅	C ₅	C ₅	C ₅ min	C ₅	C ₅	C ₅	C ₅	
24 / 36 / 48V system											
14 kW	230A	920	1030	1400	1550	920	1030	1400	1550		
21 kW	320A	1260	1400	1550		1260	1400	1550			
72 / 80V system											
14 kW	140A	575	620	850	1000	1240	575	620	850	1000	1240
21 kW	210A	840	930	1260	1550		840	930	1260	1550	
28 kW	280A	1120	1240	1550			1120	1240	1550		
35 kW	350A	1400	1550				1400	1550			

Please use Fast Charge below 6 hours required charging time for Perfect Plus and Water Less.

You must refer to EnerSys® Technical Department in case of:

- battery capacities outside the stated range
- gel applications
- special battery settings (Wi-IQ® etc.) when Fast Charge applies

Technical parameters of the module / system

	Applicable standards
Electrical safety	EN60950-1
EMC	EN61000-6-2 (Immunity - Industry) EN61000-6-4 (Emission - Industry)
Environment	EN60068-2-1 (Cold) EN60068-2-2 (Dry heat) EN60068-2-30 (Damp heat, cyclic) EN60068-2-52 (Salt mist, cyclic) EN60068-3-4 (Damp heat) EN60721-3-2 (Vibrations) EN50392 (Exposure to EMF) RoHS compliant

Technical parameters of the module

	Module 24 / 36 / 48V			Module 72 / 80V	
	24 V	36V	48V	72V	80V
AC voltage range	V 360 to 530				
AC frequency range	Hz 50 / 60				
AC configuration	Automatic Plug'n'Play modules				
Nominal current consumption A @400V _{AC} & 2.4V _{DC} /cell	5.5	8	10.5	10	10.6
AC fuse (Protistor)	A 20				
Efficiency	94%@400V _{AC} / 100% load				
Power factor	>0,95				
DC voltage	24	36	48	72	80
DC maximum current (up to 2.4V _{DC} /cell)	115	115	115	70	70
DC fuse (Protistor)	A 160				
T°. of use	°C 0 to +45				
Humidity	5-95% RH (non-condensing)				
Cooling	Fan (front to back airflow)				
Weight	kg 8				
Dimensions					
Height	mm 530				
Length	mm 96				
Depth	mm 387				
Front Panel	Yellow LED = supply on Green LED = Charge in progress Red LED = Module failure				

Technical parameters of the system

	System cabinet	
	3-slot	6-slot
AC voltage range	V 400 (±10%)	
AC frequency range	Hz 50	
AC cable section	6	16
AC cable length	m 2	
AC auxiliary fuse	A 2	
DC harness type	Single	Single (up to 320 A _{DC}) Dual (above 320 A _{DC})
DC harness section	mm 70 (up to 230 A _{DC} per harness) 95 (above 230 A _{DC} per harness)	
DC harness length	m 3	
T°. of use	°C 0 to +45	
Humidity	5-95% RH (non-condensing)	
Maximum weight (without modules)	38	52
Dimensions		
Height	622	724
Length	415	808
Depth	486	644
Installation	Wall- and Floor-mounting	Floor-mounting
Interface	5-color LCD display with backlight Navigation menu USB connection Wi-IQ® communication	
Options	Ethernet communications Network managements Remote indicators	



Wherever you do business, EnerSys® can support you with motive power energy. The Hawker® branded battery range, matched chargers and systems provide trouble free performance under the most demanding service conditions. Our strategically located manufacturing plants are efficient and responsive with a culture of continuous improvement and added value for our business partners.

EnerSys has an enviable position in technology leadership and with significant investment in research and development we intend to stay at the leading edge in product innovation. The recently developed energy solutions: Hawker XFC™ and Water Less® 20 batteries, Lifetech® and LifeSpeed IQ™ HF chargers, have defined new benefits for our customers: faster recharge, more machine availability, lower operating and investment costs, reduced carbon footprint. Our team of development engineers is driven by the desire to build the best energy solutions and works closely with our customers and suppliers to identify development opportunities. Our bias for rapid innovation means we get new products to market fast.

EnerSys's integrated sales and service network is dedicated to providing our customers with the best solutions and after-sales support for their business. Whether you require 1 battery or a complete fleet of batteries, chargers, a battery handling system and a state of the art fleet management system, you can count on us. EnerSys is the world's largest industrial battery manufacturer and we are dedicated to being the best.



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