

# Ni-Cd Aircraft Battery Cells and Batteries

- Since 1993, a large part of the Ni-Cd aircraft and helicopter battery needs of the Turkish Armed Forces and the General Directorate of Security has been met by ASPİLSAN Energy.
- ASPİLSAN Energy Ni-Cd aircraft batteries meet the quality requirements specified in the relevant standards, civil and military technical specifications.
- Batteries generally have an output voltage of 24V, obtained by connecting 20 cells in series, and an electrical capacity between 7Ah and 40 Ah.
- The battery has an EASA Type Certificate and is used in civil aviation with the ASPF20/27HIC () P/N for use in civil aviation began.



Cell Type		FP8HIC	FP12HIC	FP15HIC	FP17HIC	FP22HIC	FP25HIC	FP27HIC	FP40HIC
NATO Stock Number (NSN)		6140 27 005 8070	6140 27 005 8069	6140 27 005 8068	6140 27 007 9953		6140 27 005 8067	6140 27 005 8066	6140 27 005 8065
Nominal Voltage (V)		1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
Nominal Capacity(5hr) Ah		8	12	15	17	22	25	27	40
Capacity (1hr) Ah		8	12	15	17	22	25	27	40
Instantaneous Power (kW)		5,2	9,2	11,5	11,8	14	15,7	18,8	22,5
Charging Terms		With a constant current of 11 (1 CA) until the battery voltage is 1.55V/Cell, then with a constant current of 15 (0.2 CA) for 2 hours or with a constant current of 15 (0.2 CA) for 7-8 hours							
End of Charge Voltage		1,58V	1,58V	1,58V	1,58V	1,58V	1,58V	1,58V	1,58V
Electrolyte		Potassium Hydroxide (KOH) (Density: 1.28 kg/l)							
Output Socket		Bot- Nut M8							M10
Dimensions (mm)	Width	27	27	28	28,5	27	27	35,5	35,5
	Size	60	59	59	80	80	80,1	80	79,1
	Height	108	144,5	171,5	143,5	164,5	208,5	180	239
Weight (gr)		400	480	650	690	860	1100	1200	1550
Application		SIKORSKY BLOCKHAWK UH60-S70	BLOCK30	F-4, RF-5 T-38, AB-206 CESSNA 2101310	F-16 BLOCK 40-50	ANKA UAV AKSUNGUR UAV	SF-250D CASA C-212	MI-17 MI-8 C-130	CASA CN-235, C160 C-130,G-IV,CIT-7,8-212 KT-1T,UH-1H, COUGAR AS-532 MA-32A



Battery Type	Standards and Specifications	NSN 6140 27..	Cell		Nominal		Max Power (kw)	Dimensions (mm)			Weight (Kg)	Output Socket	Applications												
			Type	NSN 6140 27...	Voltage (V)	Capacity (Ah)		En	Size	Height															
F20/12HICT4	IEC 952-1	-	FP12HIC	005 8069	24	12	9,2	211	230	162	13	Special	F-16 (BLOCK30)												
F20/7HICT4		005 8064	FP7HIC	005 8070		7	5,2	142	318,5	123,5	10,5		MS18093	Sikorsky UH-60/70											
F20/15HIC		005 8062	FP17HIC	-		17	13	198	195	196	16,3	F-4,T-38,AB-206													
F20/17HIC-2		-						209	270	146	16,3			AB-206 (Jet/Long Ranger)											
F20/17 HICT-2		-	FP17HICT-S	007 9953		12	227	264	162	18-20	Special	F-16 (BLOCK 40/50)													
F20/17HICT		-				25	15,7	197	254	224	24,5	MS18093		SF-260D CASA CASA C-212,vb											
F20/25HICTF		IEC 952-2	005 8060	FP27HIC		005 8066	27	18,8	169	480	236	29		Special	MI-17,M18										
F19/40HIC		MIL-B-26220C	007 0699	FP40HIC		005 8065	24	40	22,5	247	253	262		36,5	MS18093	C-130 (Hercules)									
F20/40HIC		MIL-STD-810C	005 3805													22,8	21,3	35	C-160, GIV-4,B212, T-37, CIT-7						
		BS 3G 205																							
F20/40HICT-2	VG 95238T2	005 8058	24		40								22,5							247	251,5	262	37	MS18093	UH-1H MA-32A, Cessna
F20/40HICEIWT (H)	TS EN 2570	8059																							24
F20/40HICT-2KT-1T	-	FP40HIC	24	40	22,5	247	251,5	262	37	MS18093	KT-1T														
F20/22HICT	-	FP22HIC	24	40	22,5	165	309	180	21	MS18093	Anka / Aksungur IHA														
ASPF20/27HIC	-	FP27HIC	24	27	18,8	247	255	201	28	MS18093	Civil Avilation														
F20/27HICT	-	-	24	27	18,8	247	257	201	29	MS18093	C-130 (Hercules)														

ASPİLSAN Enerji A.Ş.  
Battery Systems Production Facility  
Mimarsinan OSB Mahallesi  
1. Cadde No:43 Melikgazi / Kayseri  
Tel: +90352 321 12 15-16  
Faks: +90352 321 12 17

ASPİLSAN Enerji A.Ş.  
R&D Center & HDRS Batteries  
Production Facility  
Organize Sanayi Bölgesi  
12. Cadde No: 8 Kayseri / Türkiye  
Tel: +90352 321 12 15-16  
Faks: +90352 321 12 17

