

金属化膜直流滤波电容器

DC Filtering Metallized Film Capacitors

应用

- 太阳能/风能逆变器“DC-link”的平滑滤波；
- 逆变电源、UPS 电源、大功率开关电源等母线电压的平滑滤波；
- 大功率变频器、逆变焊机等电力电子设备的平滑过滤。

Applications

- Solar energy / wind power generation inverter “DC-link” smoothly filtering circuit.
- The applications of smooth filtering circuit of power electronic equipments, including high power converter, inverter of soldering machine and so on.



● 产品描述

- 执行标准 GB/T 17702.1 idt IEC 61071-1, GB/T2693 idt IEC 60384-1;
- 特殊金属化聚丙烯/聚酯膜无感卷绕而成；
- 产品用高性能阻燃环氧树脂封装于 UL94-V0 阻燃塑壳中；
- 应用具有自主知识产权的国家专利技术制造；
- 产品具有很低的 ESR、能耐受大的有效值电流 I_{rms} 和峰-峰值电流 I_{pp} ；
- 可承受较高的非周期性峰值电压 U_s ；
- 可直接替代平滑滤波电路中的电解电容，为电控系统的长寿命工作提供可靠保障。

● 工艺特点

- 采用标准化定制的内部结构件，可以确保内部连接可靠和 ESR 更低，以及引出端子能够承受更大的扭矩力；
- 采用专用模具加工制造，可以保证产品引出端子的尺寸精度，从而可确保多个产品并联使用时一次性安装成功。

● Description of Products

- Reference standard: GB/T 17702.1 idt IEC 61071-1, GB/T2693 idt IEC 60384-1;
- Special metallized polypropylene/polyester film wound, non-inductive construction.
- The element of capacitor is sealed with high performance flame-retardant epoxy resin in UL94-V0 flame-retardant plastic box.
- To adopt technology patent with self-owned intellectual property right approved by our country to manufacture products.
- Very low ESR, withstanding very high effective value of current I_{rms} and peak to peak value of current I_{pp} .
- Withstanding higher non-periodic peak to peak voltage U_s .
- To replace electrolytic capacitor in smoothly filtering circuit so as to offer reliable assurance for long life operating of electric control system.

● Technology Features

- To adopt standardizing internal custom-made, structure member assuring internal connection reliable, lower ESR, terminals can endure more torque force.
- Using special mould in process of manufacturing product, assuring accuracy of dimensions of product's terminals and successful in first mounting them when many products are used to connect together in parallel.

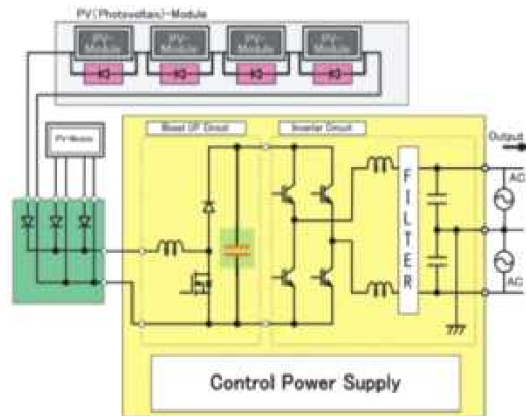
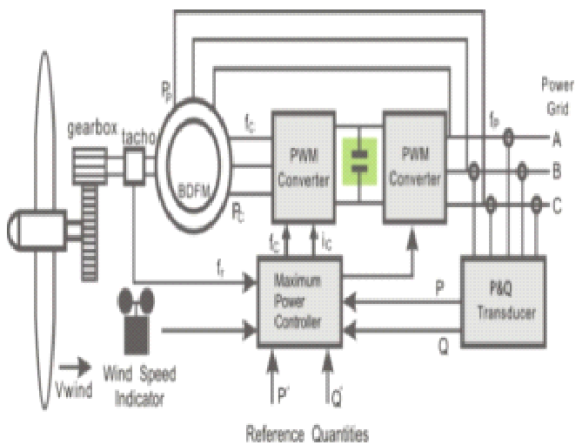
● 性能指标 Specifications

温度范围 (与工作电流有关) Temperature Range	-40~+85/105℃ (Relating to operating current)
电容量范围 (可根据客户要求定制) Capacitance Range	50~880μF (Others made to order available)
电容量偏差 Δ C/C Capacitance Tolerance Δ C/C	J: ±5% K: ±10%
额定工作电压 U_n (可根据客户要求定制) Rated Voltage U_n	450~1200Vdc (Others made to order available)
端子间电压 U_{TT} Voltage Proof Between Terminals U_{TT}	1.5 U_n (60s)
端子与外壳间电压 U_{TC} Voltage Proof Between Terminals And Case U_{TC}	4kVac (50/60Hz 60s)

● 典型应用线路 Typical Circuits Applications

风能逆变器 Wind power inverter

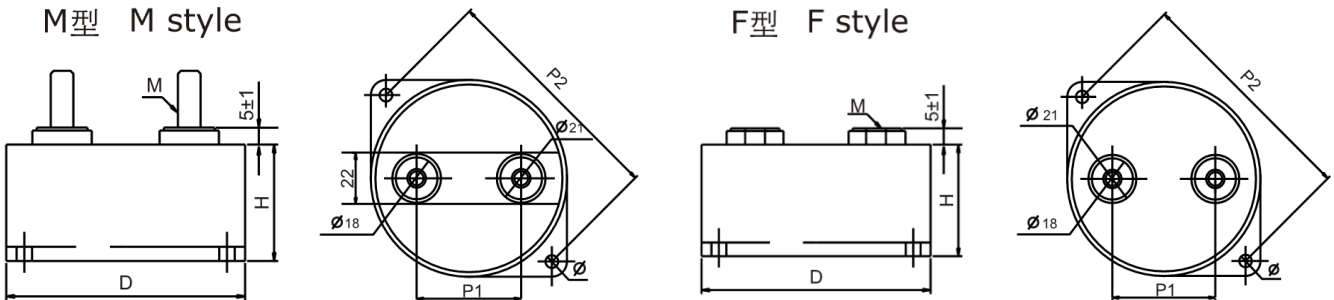
太阳能发电系统 Solar energy generation system



● 外形尺寸 (塑壳) Dimensions(Plastic Box)

M型 M style

F型 F style



外壳编号 Case code	D (mm)	引出端形式 Terminals Style		P1 (mm)	P2 (mm)	φ (mm)
		M 型	F 型			
1	85	M8×15~20	M5×7.5	45±1	101±1	5.5
2	90	M8×15~20	M5×7.5	45±1	107±1	5.5
3	118	M8×15~20	M5×7.5	60±1	138±1	6.5
4	132	M8×15~20	M5×7.5	66±1	158±1	6.5

注: 不仅仅局限于以上外壳规格, 包括外壳尺寸、引出端间距均可根据客户要求定制。



Note: Except listed descriptions above, we can offers made to order according to customer's requirements, including case size and leads spacing.

● 代表规格 (塑壳) **Representative Specifications (With Plastic Box)**

U _n	C _R	D	H	dv/dt	î	MAX I _{rms}	ESR	ESL
	(µF)	(mm)		V/µs	(A)	(A)	(mΩ)	(nH)
450Vdc	150	84.5	35	25	3750	90	0.38	18
	220	84.5	41	17	3740	90	0.55	25
	330	84.5	52	12	3960	85	0.77	32
	450	84.5	65	9	4050	85	1.06	40
	880	115	65	9	7920	115	0.54	40
600Vdc	85	84.5	35	33	2805	85	0.44	18
	120	84.5	41	24	2880	85	0.60	25
	180	84.5	52	16	2880	80	0.92	32
	220	84.5	65	13	2860	80	1.06	40
	260	84.5	65	11	2860	80	1.31	40
	500	115	65	11	5500	110	0.68	40
800Vdc	72	84.5	35	36	2592	80	0.55	18
	100	84.5	41	26	2600	80	0.76	25
	150	84.5	52	17	2550	75	1.16	32
	220	84.5	65	12	2640	75	1.62	40
	420	115	65	12	5040	105	0.78	40
1000Vdc	55	84.5	35	42	2310	75	0.59	18
	78	84.5	41	30	2340	75	0.80	25
	120	84.5	52	20	2400	70	1.19	32
	160	84.5	65	14	2240	70	1.67	40
	330	115	65	14	4620	100	0.85	40
1200Vdc	50	84.5	41	38	1900	70	0.98	25
	80	84.5	52	24	1920	65	1.45	32
	110	84.5	65	17	1870	65	2.01	40
	220	115	65	17	3740	95	1.05	40

备注：可根据客户需求，提供定制产品。Special design available to meet your requirements.